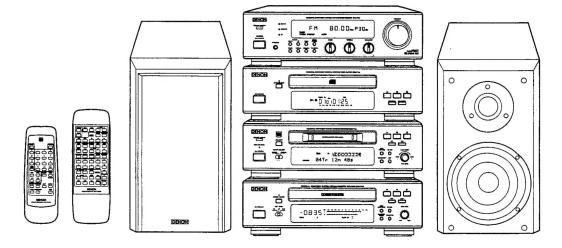
DENON

Hi-Fi Personal Component System

SERVICE MANUAL MODEL D-F100

PERSONAL COMPONENT SYSTEM



This Service Manual covers the following components:

DRA-F100 (AM/FM Stereo Receiver)
DCD-F100 (Compact Disc Player)
DMD-F100 (Mini Disc Recorder)
DRR-F100 (Cassette Tape Deck)

SC-F100 (Speaker System) (Option for Asia model)

● The D-F100 Personal Component System consists of the following:

AM/FM Stereo Receiver DRA-F100
Compact Disc Player DCD-F100
Mini Disc Recorder DMD-F100
Cassette Tape Deck DRR-F100

Speaker System SC-F100 (Option for Asia model)

Some illustrations using this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

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PACKING & ACCESSORIES 120

SPECIFICATIONS

Reception sensitivity:

■ Receiver (DRA-F100)

Practical maximum output: $30W + 30W (4\Omega/ohms)$

Low frequency adjustment range: 100Hz ±8dB High frequency adjustment range: 10kHz ±8dB

CD input jacks, tape input/output jacks, MD input/output jacks, Aux input jacks. Audio input/output jacks:

3.5mm headphones jack and phono input jacks.

FM: 87.50MHz~108.00MHz Reception frequency band:

AM: 522kHz~1611kHz FM: 1.5μV/75Ω/ohms

AM: 20μV 35dB (1kHz) FM stereo separation:

AC230V, 50Hz (Europe & U.K. models) Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumption:

270 (W) \times 84 (H) \times 289 (D) mm (including feet, controls and terminals) Maximum external dimensions:

 $(10-5/8^{\circ} \times 3-5/16^{\circ} \times 11-3/8^{\circ})$

4.1kg (9lbs. 1 oz)

■ CD player (DCD-F100)

Wow & flutter: Below measurable limits (±0.001% W.peak)

Sampling frequency: 44.1kHz

Optical source: Semiconductor AC230V, 50Hz (Europe & U.K. models) Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumption: 10W

270 (W) \times 84 (H) \times 257 (D) mm (including feet, controls and terminals) (10-5/8" \times 3-5/16" \times 10-25/64") 2.7kg (5 lbs. 15oz) Maximum external dimensions:

Weight:

Remote control unit (for System) (RC-848: Europe & U.K. models)

(RC-829: Asia model)

Remote control method:

Infrared pulse 52 (Europe & U.K. models) No. buttons:

47 (Asia model) Power supply:

DC3V using two R6P batteries 64 (W) × 195 (H) × 18 (D) mm, (2-1/2" × 7-43/64" × 23/32") Maximum external dimensions:

130g (Approx. 4.6oz) (including batteries) Weight:

■ MD recorder (DMD-F100)

MiniDisc digital audio system

Wow & flutter: Below measurable limits (±0.001% W.peak or less)

44.1kHz Sampling frequency: Magnetic modulation overwriting Recording method:

Semiconductor Optical source: AC230V, 50Hz (Europe & U.K. models)

Power supply: AC115/230V, 50/60Hz (Asia model)

11W Power consumptions:

270 (W) \times 84 (H) \times 269 (D) mm (including feet, controls and terminals) (10-5/8" \times 3-5/16" \times 10-19/32") Maximum extrnal dimensions:

2.9kg (6 lbs. 6oz) Weight:

Remote control unit (RC-267) (for MD)

Remote control method: Infrared pluse

No. button:

DC3V using two R6P batteries Power supply:

Maximum external dimensions: 54 (W) × 155 (H) × 29 (D) mm, (2-1/8" × 3-7/64" × 1-7/64")

100g (3.5oz) (including batteries)

Cassette deck (DRR-F100)

Horizontal 4-track 2-channel stereo auto reverse cassette deck Type:

1 hard permalloy recording/playback head Heads:

duble-gap ferrite erasing head

Tape speed: 4.75cm/s

Dolby B and C NR, Dolby HX Pro Included circuits: Normal, chrome and metal AC230V, 50Hz (Europe & U.K. models) Usable tapes: Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumption: 14W

270 (W) \times 84 (H) \times 271 (D) mm (including feet, controls and terminals) Maximum external dimensions:

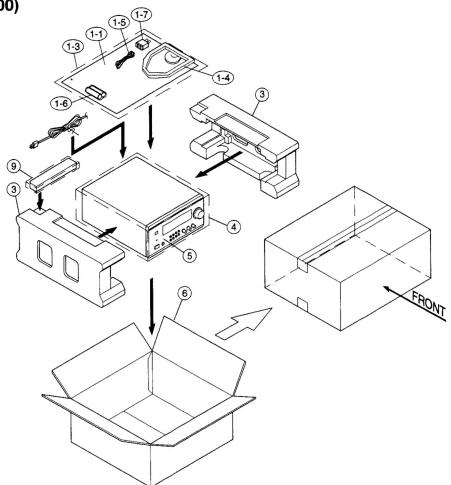
(10-5/8" × 3-5/16" × 10-43/64") 2.9kg (6 lbs. 6oz)

For improvement purposes, specifications and functions are subject to change without advanced notice.

Dolby noise reduction and HX pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

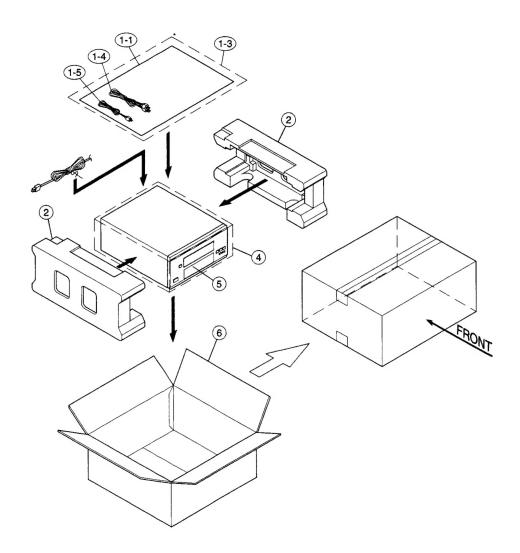
"DOLBY", the double-D symbol [1] and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

PACKING VIEW Receiver (DRA-F100)



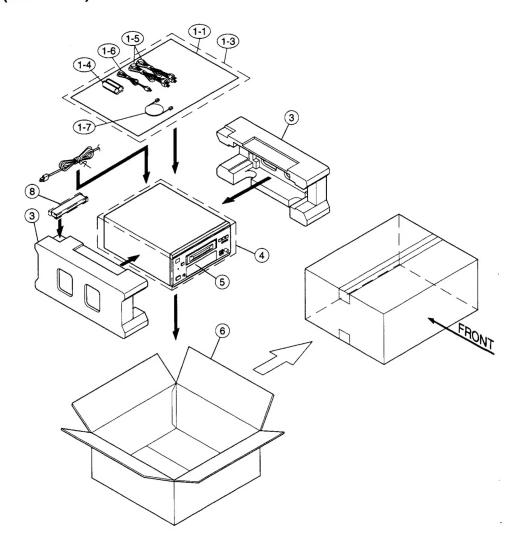
F	Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	4	960 0116 104	Poly bag (set)	6337200029010	1
★	0-2		Pos label	5507051630010	2	5		DRA-F100	HK980801	1
	6737			Europe Model					Europe Model	
*	0-2		Pos label	5507051630020	2	5		DRA-F100	HK980803	1
Ì				U.K. Model					U.K. Model	
1	1-1	960 0115 820	Instruction manual (E2)	5708210010010	1	5		DRA-F100	HK980804	1
				Europe Model					Asia Model	
	1-1	960 0115 833	Instruction manual (EK)	5708210030010	1	6	960 0115 927	Carton case	6007210010010	1
				U.K. Model					Europe Model	
	1-1	960 0115 817	Instruction manual (E1)	5708210040010	1	6	960 0115 930	Carton case	6007210010100?	1
				Asia Model		11			U.K. Model	
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1	6	960 0115 914	Carton case	6007210010020	1
1				Asia Model only					Asia Model	
1	1-3	960 0107 809	Poly bag	6337000240010	1	8	960 0142 107	Cushion pad	6240210001400	1
1	1-4	960 0004 106	Loop antenna	E601000050000	1	11			U.K. Model only	
ı	1-5	960 0004 203	FM antenna	E605000030000	1	9	960 0090 301	Remote controller RC-848	8300012940020	1
	1-6	_	Battery (R6P)	G670001R50010	2				Europe & U.K. Models	;]
A	1.7	960 0142 204	AC adapter	L109283004100	1	9	960 0081 200	Remote controller RC-829	8300012950010	1
				Asia Model only		11			Asia Model	
	3	960 0116 007	Cushion	6230210014000	1					
L]				

CD Player (DCD-F100)



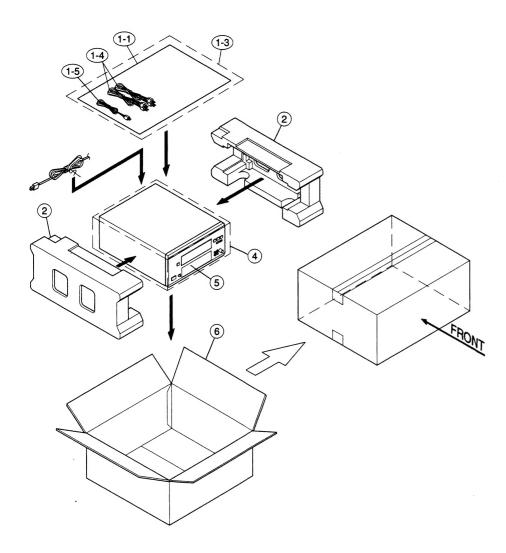
			AOILING & AC	02000						
Ref	. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	1-4	960 0031 108	Pin cord	L063210200000	1
*	0-2		Pos label	5507051620010	2	1-5	960 0006 104	Mini plug cord	L063210210040	1
				Europe Model		2	960 0122 208	Cushion	6230210024000	1
*	0-2	_	Pos label	5507051620020	2	4	960 0116 104	Poly bag (set)	6337200029010	1
				U.K. Model		5		DCD-F100	HD980501	1
	1-1	960 0126 822	Instruction manual (E2)	5708210050010	1				Europe Model	
				Europe Model		5		DCD-F100	HD980503	1
	1-1	960 0126 835	Instruction manual (EK)	5708210070010	1				U.K. Model	
				U.K. Model		5		DCD-F100	HD980504	1
	1-1	960 0126 819	Instruction manual (E1)	5708210080010	1				Asia Model	
				Asia Model		6	960 0126 929	Carton case	6007210010040	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1				Europe & U.K. Models	
				Asia Model only		6	960 0126 916	Carton case	6007210010050	1
	1-3	960 0107 809	Poly bag	6337000240010	1				Asia Model	

MD Recorder (DMD-F100)

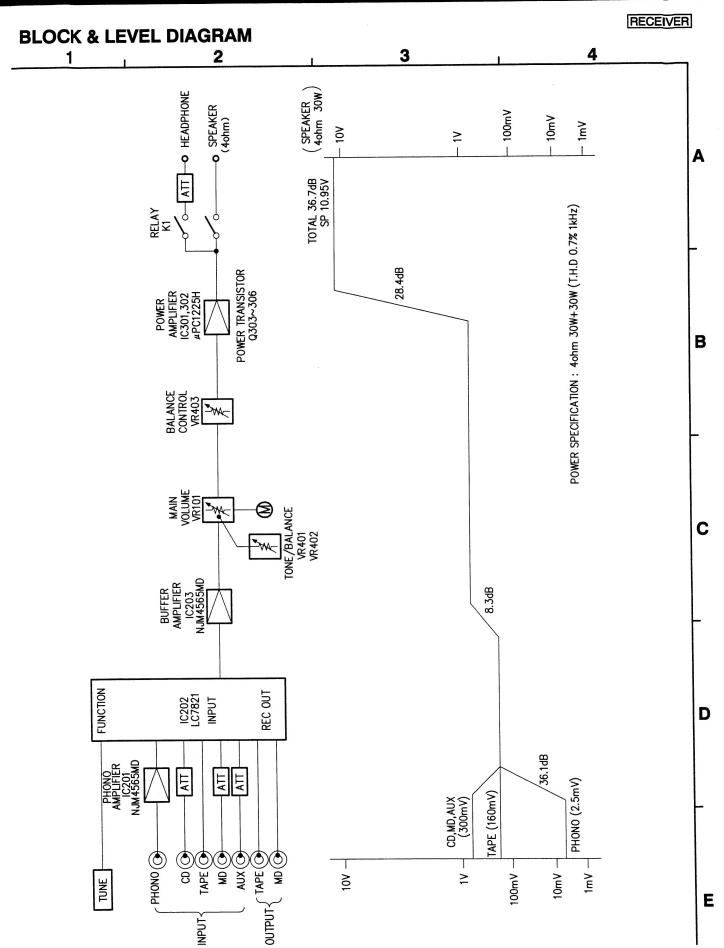


R	ef. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	1-6	960 0006 104	Mini plug cord	L063210210040	1
*	0-2	_	Pos label	5507051610010	2	1-7	960 0132 405	Optical cord	L068601010010	1
1				Europe Model		3	960 0122 208	Cushion	6230210024000	1
*	0-2	_	Pos label	5507051610020	2	4	960 0116 104	Poly bag (set)	6337200029010	1
l				U.K. Model		5		DMD-F100	HM980201	1
ı	1-1	960 0122 020	Instruction manual (E2)	5708210130010	1				Europe Model	
				Europe Model		5		DMD-F100	HM980203	1
l	1-1	960 0122 033	Instruction manual (EK)	5708210150010	1				U.K. Model	
ı				U.K. Model		5		DMD-F100	HM980204	1
l	1-1	960 0122 017	Instruction manual (E1)	5708210160010	1				Asia Model	
				Asia Model		6	960 0122 127	Carton case	60072100100A0	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1				Europe & U.K. Models	
				Asia Model only		6	960 0122 114	Carton case	60072100100B0	1
	1-3	960 0107 809	Poly bag	6337000240010	1				Asia Model	
1	1-4	_	Battery (R6P)	G670001R50010	2	8	960 0135 004	Remote controller RC-267	8300400300010	1
	1-5	960 0031 108	Pin cord	L063210200000	2					

Cassette Deck (DRR-F100)



F	Ref. No.	Part No.	Part Name	Remarks	Q'ty		Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	Ш	1-4	960 0031 108	Pin cord	L063210200000	2
*	0-2		Pos label	5507051600010	2	Ш	1-5	960 0006 104	Mini plug cord	L063210210040	1
				Europe Model		П	2	960 0122 208	Cushion	6230210024000	1
*	0-2	_	Pos label	5507051600020	2	Ш	4	960 0116 104	Poly bag (set)	6337200029010	1
				U.K. Model		Ш	5		DRR-F100	HC980401	1
	1-1	960 0132 324	Instruction manual (E2)	5708210090010	1	Ш				Europe Model	
				Europe Model		Ш	5		DRR-F100	HC980403	1
	1-1	960 0132 337	Instruction manual (EK)	5708210110010	1	Ш				U.K. Model	
				U.K. Model		II	5		DRR-F100	HC980404	1
	1-1	960 0132 311	Instruction manual (E1)	5708210120010	1	Ш				Asia Model	
•				Asia Model		Ш	6	960 0132 528	Carton case	6007210010070	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1	Ш				Europe & U.K. Models	
				Asia Model only		Ш	6	960 0132 515	Carton case	6007210010080	1
	1-3	960 0107 809	Poly bag	6337000240010	1	П				Asia Model	
										l	

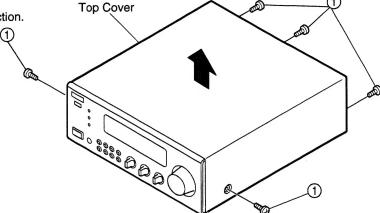


DISASSEMBLY

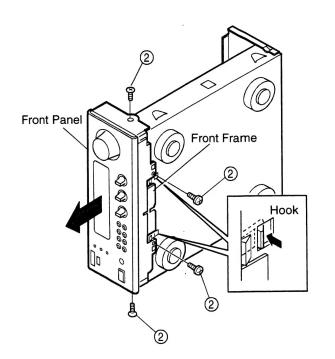
(Follow the procedure below in reverse order when reassembling)

1. Top Cover & Front Panel

- (1) Remove 5 screws 1 fixing the Top Cover.
- (2) Detach the Top Cover as shown in the arrow direction.



- (3) Remove 4 screws (2) on the bottom and both sides.
- (4) Disconnect 16P FFC from its connector base.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



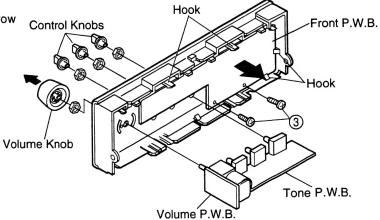
2. P.W.B.s on Panel

TONE/VOLUME P.W.B.

(1) Pull out Knobs (3 Control & 1 Volume) to the arrow direction, and remove 4 Nuts fixing each P.W.B.

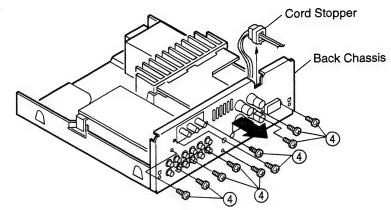
FRONT P.W.B.

- (2) Remove 2 screws 3 .
- (3) Detach the Front P.W.B. with releasing 4 Hooks.



3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 10 screws 4 fixing the Back Chassis.
- (3) Detach the Back Chassis to the arrow direction.

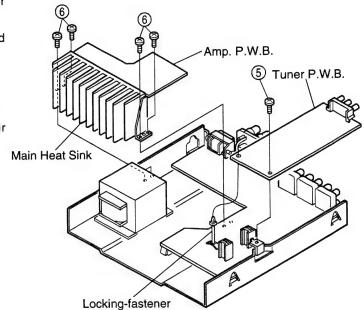


TUNER P.W.B.

- (4) Disconnect 13P FFC and 9P Connector Cord from their connector bases.
- (5) Detach the Tuner P.W.B. after removing 1 screw (5) and releasing the hook of Locking-fastener.

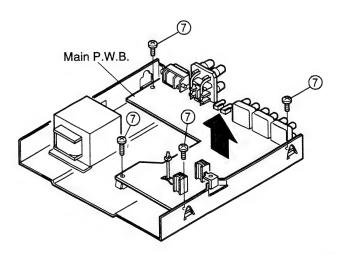
AMP. P.W.B.

- (6) Remove 4 screws (6) fixing the Heat Sink Bracket L/R.
- (7) Disconnect 4P and 6P Connector Cord from their connector bases.
- (8) Detach the Amp. P.W.B. with the Main Heat Sink.



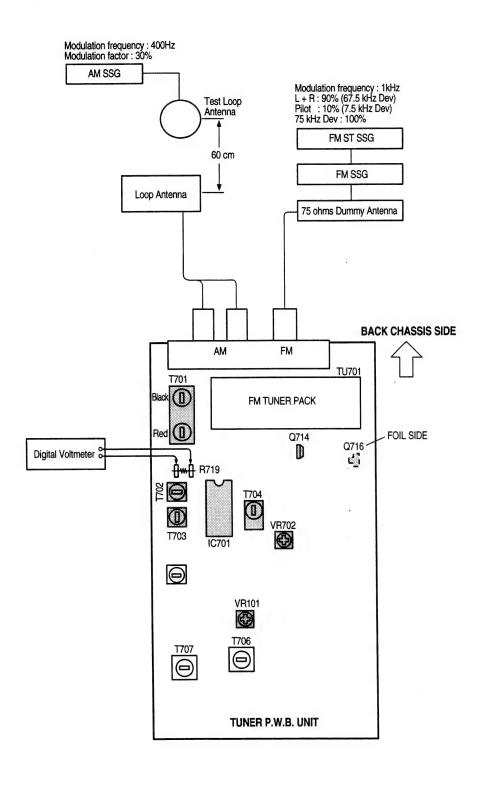
MAIN P.W.B.

(9) Remove 4 screws (7), and detach the Main P.W.B. to the arrow direction.



ADJUSTMENTS

WIRING DIAGRAM



1. FM adjustment (BAND button: FM, FM MODE button: AUTO (STEREO))

					Input		·	Out	tput	Adjustment	Setting	
Step	Adjustment item	Tuning point (channel setting)	Measuring Instrument	Frequency	Input level	Modulation	Connection location	Measuring instrument	Connection location	location	value	Notes
1	FM DC balance	98.00MHz	FM S.G.	98.00MHz	60dB μ	1kHz 75kHz DEV.	FM antenna terminal	Digital volt meter	Both leads of R719	T702	0±50mV	Perform with monaural modulation signal
2	Distortion	98.00MHz	FM S.G.	98.00MHz	60dB μ	1kHz 75kHz DEV.	FM antenna terminal	Distortion factor meter	Output jack	T703	Minimum distortion	Perform with monaural modulation signal
3						Repeat St	eps 1 and 2					
4	Muting level	98.00MHz	FM S.G.	98.00MHz	19dB μ	1kHz 75kHz DEV.	FM antenna terminal	Check for the lighting of TUNED	Output jack	VR702	Input level 22dB µ±4dB	(Level at which TUNED lights up) Level at which the output is provided
5	Stereo separation	98.00MHz	FM stereo modulator FM S.G.	98.00MHz	60dB μ	1kHz L or R : 67.5kHz DEV. Pilot ; 7.5kHz DEV.	FM antenna terminal	VTVM Oscilloscope	Output jack	VR703	Minimum R.ch. Output	Perform with L.ch. Input of FM stereo modulator

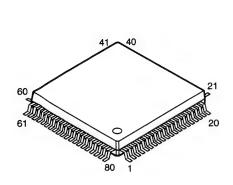
2. AM adjustment (BAND button: AM)

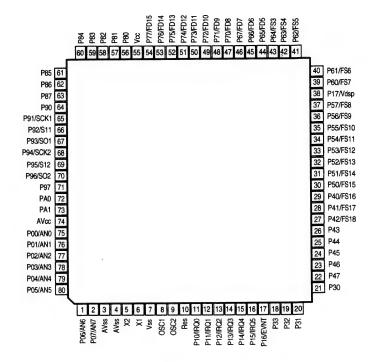
					Input			Out	tput			
Step	Adjustment item	ichannei settinni i	Measuring Instrument	I I Educticy		Modulation	Connection location		Connection location	Adjustment location	Setting value	Notes
1	IF	Clear frequency (without a broadcast)		455kHz	Level at which AGC is not applied		AM antenna terminal	Oscilloscope	⊕ IC701 Output terminal Pin@ ⊝ Q716 (Basse)	T704	Waveform maximum and symmetry	
		522kHz						Digital	⊕ GND	T701(Black)	1.2V±0.2v	
2	Band edge	1611kHz	_	_					(Collector) ⊝ GND	_	Approx. 7.5v	No place to adjust
3	Tracking	603kHz	AM S.G.	603kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T701(Red)	Maximum output	
4		Repeat Steps 2 and 3, and set the output to maximum.										

SEMICONDUCTORS

• IC's

HD6433726SE13H (IC901)



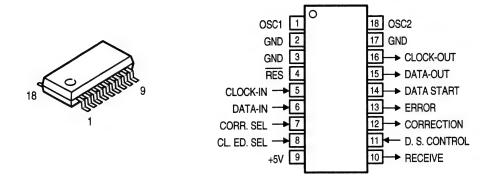


● HD6433726SE13H Terminal Function

Pin No.	Symbol	Port Name	1/0	INI	ACT	Function
1	AM Stereo	P60/AN6	1		L	AM stereo signal detection
2	Tuned In	P07/AN7	1	L	Н	-FM/AM tuning signal input
3	GND	Avss				Analog GND
4	GND	Test	_			
5	Sub Xtal	X2	0		_	Sub X'tal drive
6	Sub Xtal	X1				Sub X'tal input
7	Vss	Vss	-			GND
8	OSC1	OSC1	0			8.38MHz X'tal output
9	OSC2	OSC2	1	_	_	8.38MHz X'tal input
10	Reset	Res	1		L	Reset input
11	Remocon	P10/IRQ0	1		L	Remote control signal input
12	50/60	P11/IRQ1	1	_	L	50/60Hz AC input
13	Protect	P12/IRQ2	I	_	L	Over-current detect signal input
14	RDS Start	P13/IRQ3	1		L	RDS signal start detection
15	RXD	P14/IRQ4	1	_	L	DENON bus data input
16	Mute	P15/IRP5	0	Н	L	Speaker relay OFF
17	GND	P16/EVNT	1	_	_	Not used
18	N.C.	P33	0	L	L	No connection
19	RT Gr LED	P32	0	L	Н	RT green LED
20	TA Gr LED	P31	0	L	Н	TA green LED
21	PTY Gr LED	P30	0	L	Н	PTY green LED
22	RT Rd LED	P47	0	L	Н	RT red LED
23	TA Rd LED	P46	0	L	Н	TA red LED
24	RTY Rd LED	P45	0	L	Н	PTY red LED

Pin No.	Symbol	Port Name	I/O	INI	ACT	Function
25	Diode 1	P44	1		Н	Setting recovery input 1
26	Diode 2	P43	1	_	Н	Setting recovery input 2
27	Seg 1	P42/FS18	0	L	Н	Segment 1 output
28	Seg 2	P41/FS17	0	L	Н	Segment 2 output
29	Seg 3	P40/FS16	0	L	Н	Segment 3 output
30	Seg 4	P50/FS15	0	L	Н	Segment 4 output
31	Seg 5	P51/FS14	0	L	Н	Segment 5 output
32	Seg 6	P52/FS13	0	L	Н	Segment 6 output
33	Seg 7	P53/FS12	0	L	Н	Segment 7 output
34	Seg 8	P54/FS11	0	L	Н	Segment 8 output
35	Seg 9	P55/FS10	0	L	Н	Segment 9 output
36	Seg 10	P56/FS9	0	L	Н	Segment 10 output
37	Seg 11	P57/FS8	0	L	Н	Segment 11 output
38	Vdisp	P17/Vdsp				High B voltage
39	Seg 12	P60/FS7	0	L	Н	Segment 12 output
40	Seg 13	P61/FS6	0	L	Н	Segment 13 output
41	Seg 14	P62/FS5	0	L	Н	Segment 14 output
42	Seg 15	P63/FS4	0	L	Н	Segment 15 output
43	Seg 16	P64/FS3	0	L	Н	Segment 16 output
44	Dig 11	P65/FD5	0	L	Н	Digit 11 output
		P66/FD6	0	L	Н	Digit 10 output
45	Dig 10	P67/FD7	0	L	H	Digit 9 output
46	Dig 9		0		Н	Digit 8 output
47	Dig 8	P70/FD8	0	L	Н	Digit 7 output
48	Dig 7	P71/FD9	0	 -	Н	Digit 6 output
49	Dig 6	P72/FD10	+	L	Н	Digit 5 output
50	Dig 5	P73/FD11	0	+	Н	
51	Dig 4	P74/FD12	+	L		Digit 4 output
52	Dig 3	P75/FD13	0	L	H	Digit 3 output
53	Dig 2	P76/FD14	0	L	H	Digit 2 output
54	Dig 1	P77/FD15	0	L	Н	Digit 1 output
55	Vcc	Vcc	+=	 	 	5V
56	Volume Dwn	P80	0	H	H	Master VR down
57	Volume Up	P81	0	H	H	Master VR up
58	Power	P82	0	L	L	Amp circuit power ON
59	TU Mute	P83	0	H	L	Tuner audio mute
60	Auto/Mono	P84	0	Н	+=	FM Auto/Mono setting
61	Ant Sns	P85	0	L	H	ANT sens. attenuation
62	SDB	P86	0	L	H	Super dynamic bass
63	Sel EEROM	P87	0	L	<u>H</u>	SCI→EEPROM select
64	PLL CE	P90	0	<u>L</u>	H	PLL serial data select output
65	Bus Clock	P91/SCK1	0	H	-	DENON bus clock
66	Bus Data In	P92/SI1	1	1-		DENON bus data input
67	Bus Data Out		0	H	+=	
68	RDS Clock	P97/SCK2	0	H	-	
69	RDS Data	P95/SI2	11	H	 -	RDS serial data input
70	PLL Data	P96/S02	0	Н	-	PLL serial data output, LC7821 serial data output
71	RDS Res	P97	0	Н	<u> L</u>	LC7070 reset output
72	PLL STRQ	PA0	0	L	H	
73	LC7821CE	PA1	0	L	Н	
74	AVcc	AVcc			$\perp =$	Analog 5V power supply
75	Key AD0	P00/AN0	1	1=		Analog key input 0
76	Key AD1	P01/AN1	1			Analog key input 1
77	PWB Test	P02/AN2	1		. _	5V board check
78	Stereo In	P03/AN3	1		· L	FM stereo demodulation detect
79	Signal In	P04/AN4	I		. L	RF signal detect input
80		P05/AN5	1		- L	IF count tuning detect

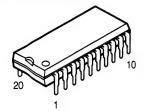
LC7074M (IC705)

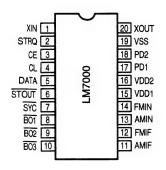


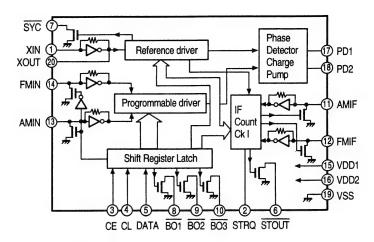
● LC7074M Terminal Function

Pin No.	Symbol	I/O	INI	Function
1	OSC1	1		4MHz ceramic oscillator connection.
2	GND		_	• GND
3	GND	_	_	• GND
4	RES	1		System reset input.
				 Reset and restart is accomplisheed by inputting the low level for 4 or more clock cycles.
5	CLOCK IN	1	Н	RDS LA2230 serial demodulation clock input.
6	DATA IN	1	Н	RDS LA2230 serial demodulation data input.
7	CORR. SEL	I	Н	Error correction on/off selection input.
				 Sets the IC to correct errors in the RDS demodulation data or to output the data without correction.
				When input is 0: No corrections are made
				When input is 1: Corrections are executed
8	CL. ED. SEL	ı	Н	Serial data clock polarity selection input.
				When input is 0: Serial data output is enabled at the rise of the output clock.
				(Serial data output changes at the fall of the output clock.)
				When input is 1: Serial data output is enabled at the fall of the output clock.
				(Serial data output changes at the rise of the output clock.)
				Note: Set at the time of RES input.
9	+5V	_	Н	Power supply.
10	RECEIVE (NC)	0	Н	Output during RDS data reception.
	, ,			After the completion of sync detection, there is a low-level output while the serial data is being
				output. There is a high-level output at other times.
				Open drain output.
				Block data start signal control input.
11	D.S. CONTROL	1	Н	When input is 0: Data start signal is output for all blocks.
				When input is 1: Data start signal is output for only the second block.
12	CORRECTION (NC)	0	Н	Output without error correction.
				• There is a low-level output when the output data of the serial data output have been corrected or
				when correction is not possible. There is a high-level output when correction has not been
				applied.
				Open drain output.
13	ERROR (NC)	0	Н	Presence of error output.
				There is a low-level output when the output data of the serial data output has an error and
				correction is not possible. There is high-level output when there is no error or when the error has
				been corrected.
				Open drain output.
14	DATA START	0	Н	Block data start signal of the serial data output.
				Output with pull-up resistor:
15	DATA OUT	0	Н	Data output of the serial data output. Output with pull-up resistor.
16	CLOCK OUT	0	Н	Clock output of the serial data output.
				Output with pull-up resistor:
17	GND	_	_	● GND
18	OSC2	0	-	4MHz ceramic oscillator connection.

LM7000 (IC703)







Pin Description

SYC

: Clock (400kHz) for the controller

XIN, XOUT

: X'tal oscillator (7.2MHz) with built-in feedback resistor

FM IN, AM IN

: Local osc. signal input

CE, CL, DATA

: Data input

B01, B02, B03

: Band data output. B01 can be set as the time base

output (8Hz)

STRQ

: IF counter request input

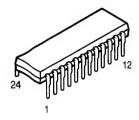
STOUT VDD1, VDD2, VSS : Auto research stop signal output : Power supply (VDD2 is a back-up power supply)

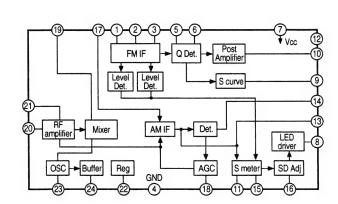
AMIF, FMIF PD1, PD2

: IF signal input

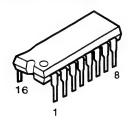
: Charge pump output

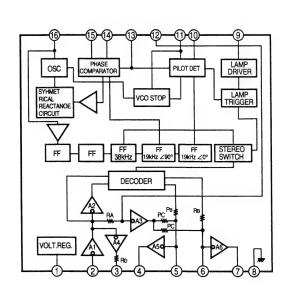
LA1267 (IC701)



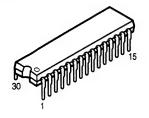


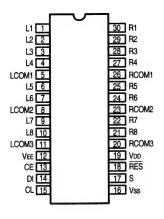
LA3410 (IC702)

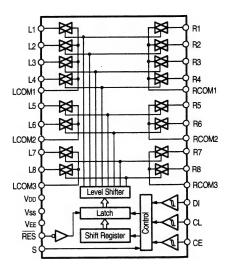




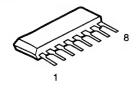
LC7821 (IC202)

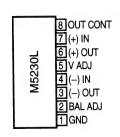


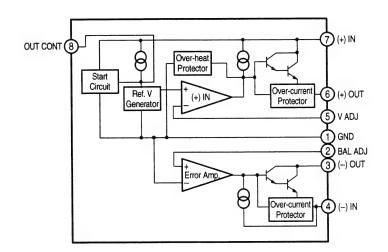




M5230L(IC401)

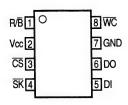






XL9040F (IC902)

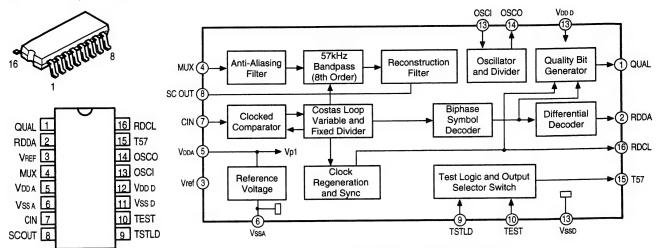




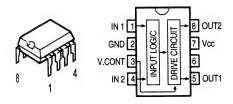
XL9040F Terminal Function

-: .:	5: 11		per
Pin No.	Pin Name	1/0	Function
1	R/B	0	READY, BUSY status signal output.
2	Vcc	-	Connect to power supply.
3	ĊŚ	1	Chip select input.
4	SK	1	Serial data clock input.
5	DI	I	Ope. code, address, serial data input.
6	DO	0	Serial data output.
7	GND	_	Ref. V for all input/output: OV
8	WC	I	Write control input.

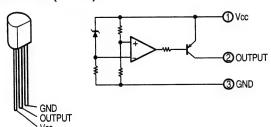
SAA6579T (IC704)



LB1639 (IC102)



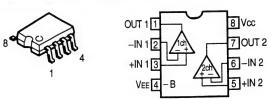
PST600C (IC903)



SAA6579T Terminal Function

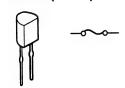
Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS fata output.
3	Vref	Reference voltage output (0.5 VDDA).
4	MUX	Multiplex signal input.
5	VDD A	+5V supply voltage for analog part.
6	Vss a	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	TSTLD	Test control.
10	TEST	Test enable.
11	Vss D	Ground for digital part (0V).
12	VDD D	+5V supply voltage for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

NJM4565MD (IC201, 203)



• IC PROTECTOR

ICP-N15(IC1~3)



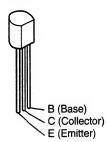
• REMOTE CONTROL SENSOR

PNA4602M00HA(RM901)

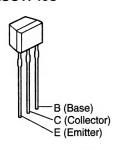


• TRANSISTORS

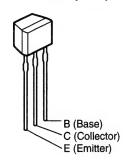
KSA992 F KSC1845 F **KTA1266** KTC3198



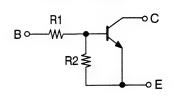
2SA933S 2SC1740S



DTC114ES (NPN) DTC144ES (NPN)

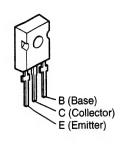


DTC ES Series

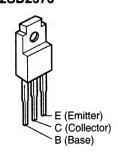


	R1	R2
DTC114ES	10kohm	10kohm
DTC144ES	47kohm	47kohm

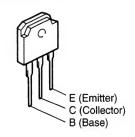
2SC4137



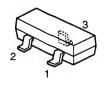
2SB1655 2SD2576



2SB1559 2SD2389

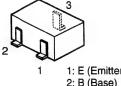


KTC3880



- 1: E (Emitter)
- 2: B (Base)
- 3: C (Collector)

2SA1037K 2SC2412K

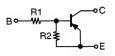


- 3: C (Collector)
- 1: E (Emitter) 2: B (Base)

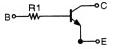
DTA114EK DTC343TK



- 1: E (Emitter)
- 2: B (Base) 3: C (Collector)



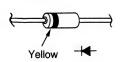
	R1	R2
DTA114EK	10kohm	10kohm



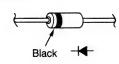
	R1
DTC343TK	4.7kohm

DIODES

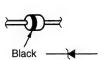
1SS133



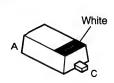
1N4004A



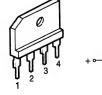
MTZJ13B MTZJ27B MTZJ5.6B MTZJ6.2B



1SS355

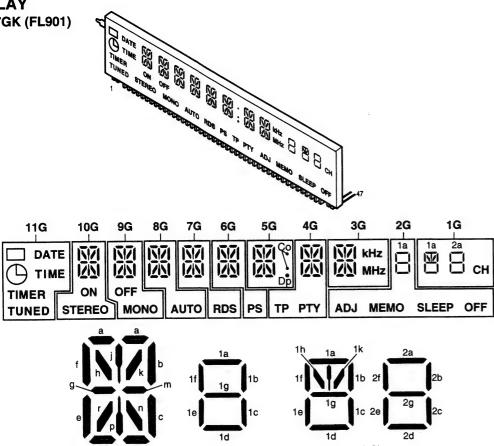


D3SB20









Pin Connection

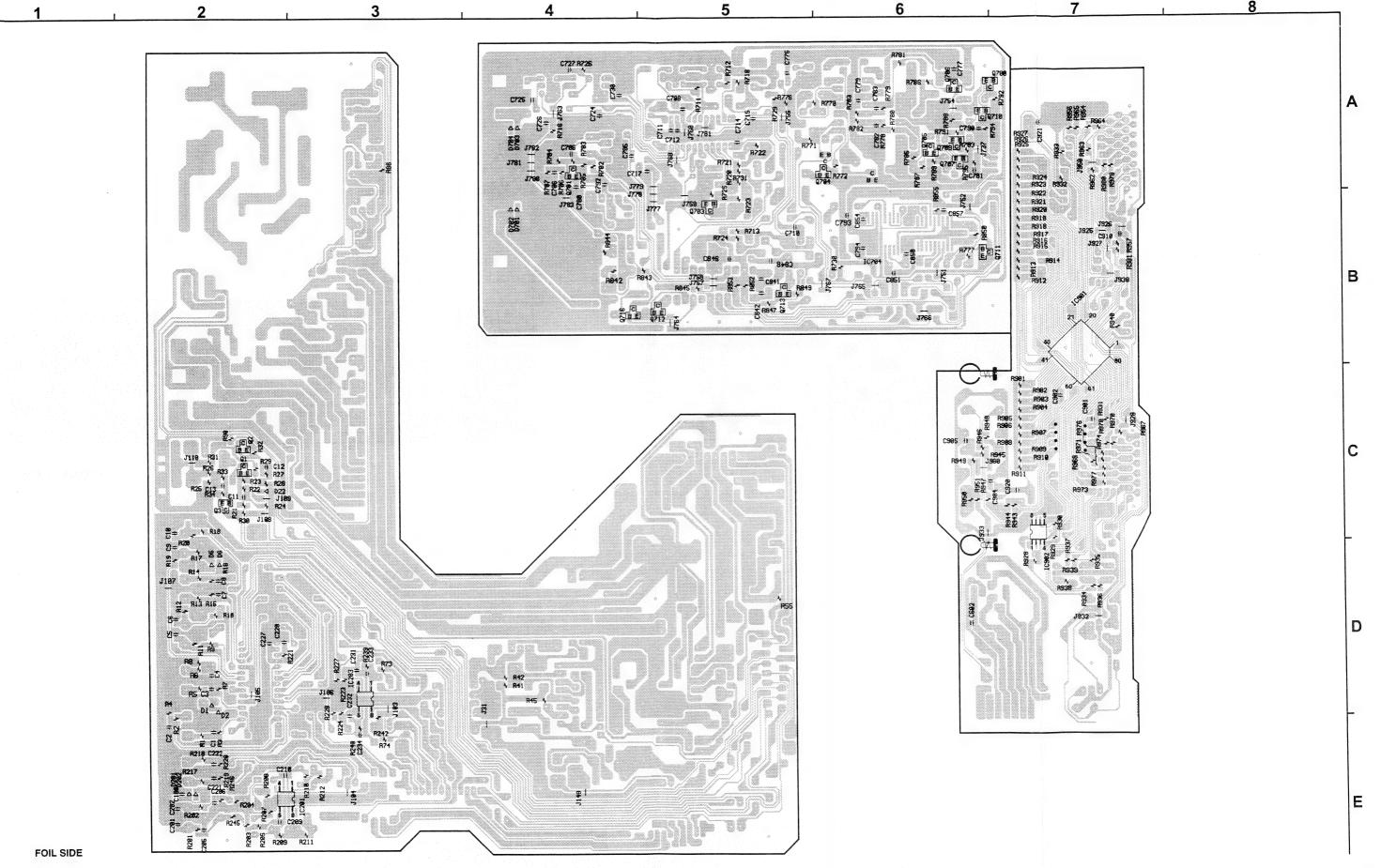
Pin Cont	necti	on																						
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Electrode	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	NC								
Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
Electrode	NC	NC	NC	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2	

(10G~3G)

Note: 1. F1 and F2: Filaments
2. NP: No pin
3. NC: No connection
4. 1G through 11G: Grid

Anode Connection

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1		а	а	а	а	a	а	а	а	1a	1a
P2	DATE	b	b	b	b	b	b	b	b	1b	1b
P3	(9)	С	С	С	С	С	С	С	С	1c	1c
P4	TIME	d	d	d	d	d	d	d	d	1d	1d
P5	TIMER	е	е	е	е	е	е	е	е	1e	1e
P6	TUNED	f	f	f	f	f	f	f	f	1f	1f
P7		g	g	g	g	g	g	g	g	1g	1g
P8		h	h	h	h	h	h	h	h	ADJ	1h, 1k
P9		i	j	j	j	j	j	j	j	MEMO	2a
P10		k	k	k	k	k	k	k	k	SLEEP	2b
P11		m	m	m	m	m	m	m	m	OFF	2c
P12		n	n	n	n	n	n	n	n	_	2d
P13	_	р	р	р	р	р	р	р	р		2e
P14		r	r	r	r	r.	r	r	r	_	2f
P15		ON	OFF	AUTO	RDS	PS	Co	TP	kHz		2g
P16		STEREO	MONO	_	_	_	Dp	PTY	MHz		CH



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NOTE FOR PARTS LIST

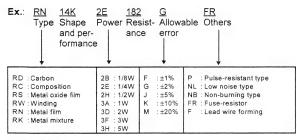
- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING

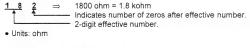
Parts marked with this symbol \triangle have critical characteristics.

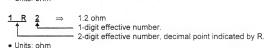
Use ONLY replacement parts recommended by the manufacturer.

Resistors

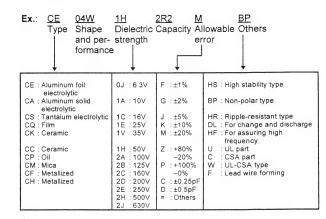


* Resistance

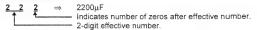




Capacitors



* Capacity (electrolyte only)



• Units: μF.

* Capacity (except electrolyte)

• Units: μF.

• Units: pF

 When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT

MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	DUCTORS G			D22	960 0117 501	Diode 1SS355	K005035500010
IC1~3	268 0073 905	IC ICP-N15	J120001500030	D201,202	960 0117 501	Diode 1SS355	K005035500010
IC1~3	263 0646 007	IC M5230L	J126523000010				
104	203 0040 007	10 1VI3230L	012002000010	D701~704	960 0117 501	Diode 1SS355	K005035500010
IC201	928 0035 809	IC NJM4565MD	J121456500040	D705~711	963 0020 309	Diode 1SS133	K000013300520
IC202	262 1808 003	IC LC7821	J040782100010				
IC203	928 0035 809	IC NJM4565MD	J121456500040	D901	963 0020 309	Diode 1SS133	K000013300520
10200	020 0000 000						Europe & U.K. Models only
IC701	263 0421 002	IC LA1267	J124126700010	D903	963 0020 309	Diode 1SS133	K000013300520
IC702	960 0092 503	IC LA3410	J124341000010				
IC703	262 0703 002	IC LM7000	J120700000010	ZD1,2	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
IC704	262 1701 906	IC SAA6579T	J124657900010	ZD3	960 0095 607	Zener diode MTZJ5.6B	K06005R644520
IC705	9LC K044 71	IC LC7074M	J120707400010	ZD4	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
	5.1			ZD5	960 0117 705	Zener diode MTZJ27B	K06027R044520
IC901	960 0119 101	IC HD6433726SD***	J020643372620	ZD6	960 0037 209	Zener diode MTZJ13B	K06013R044520
IC902	960 0050 503	IC XL9040F	J000904000010				
IC903	960 0119 208	IC PST600C	J125600200020	LED901~903	960 0050 202	LED PI3-SPR39MVW3	K500032500010
							Europe & U.K. Models only
Q1	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210				
Q2,3	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	RESISTO	RS GROUP		
Q4	960 0049 404	Transistor 2SD2576F	J5032576F0010	R1,2		Carbon chip 6.2 kohm 1/10W	C200062260200
Q5	9LC F013 21	Transistor 2SB1655E	J5011655E0010	R3,4		Carbon chip 10 kohm 1/10W	C200010360200
Q6	960 0049 404	Transistor 2SD2576F	J5032576F0010	R5,6		Carbon chip 1 kohm 1/10W	C200010260200
Q7	269 0040 902	Transistor DTC144ES	J6020144E0010	R7,8		Carbon chip 1 Mohm 1/10W	C200010560200
Q8	960 0005 002	Transistor KTC3198Y	J5023198Y0000	R9,10		Carbon chip 470 ohm 1/10W	C200047160200
Q9	271 0183 914	Transistor 2SA933S	J5000933S0050	R11,12		Carbon chip 1 Mohm 1/10W	C200010560200
Q12	269 0020 906	Transistor DTC114ES	J6020114E0010	R13,14		Carbon chip 6.2 kohm 1/10W	C200062260200
Q13	960 0005 105	Transistor KTA1266Y	J5001266Y0050	R15,16		Carbon chip 10 kohm 1/10W	C200010360200
Q14~16	960 0005 002	Transistor KTC3198Y	J5023198Y0000	R17,18		Carbon chip 470 ohm 1/10W	C200047160200
Q17	960 0005 105	Transistor KTA1266Y	J5001266Y0050	R19,20		Carbon chip 1 Mohm 1/10W	C200010560200
Q18	960 0049 404	Transistor 2SD2576F	J5032576F0010	R21		Carbon chip 10 kohm 1/10W	C200010360200
Q20	269 0020 906	Transistor DTC114ES	J6020114E0010	R22,23		Carbon chip 22 kohm 1/10W	C200022360200
			Europe & U.K. Models only	R24		Carbon chip 10 kohm 1/10W	C200010360200
				R25		Carbon chip 47 kohm 1/10W	C200047360200
Q701	960 0050 901	Transistor KTC38800	J5223880O0210	R26		Carbon chip 220 ohm 1/10W	C200022160200
Q703~706	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	R27		Carbon chip 22 kohm 1/10W	C200022360200
Q707~710	269 0104 903	Transistor DTC343TK	J5220343T0210	R28		Carbon chip 2.2 kohm 1/10W	C200022260200
Q711,712	269 0083 901	Transistor DTA114EK	J5200114E0210	R29,30		Carbon chip 10 kohm 1/10W	C200010360200
Q713	960 0050 901	Transistor KTC3880O	J5223880O0210	R31		Carbon chip 100 ohm 1/10W	C200010160200
Q714	273 0178 022	Transistor 2SC1740SR	J5021740S0010	R32~34		Carbon chip 22 kohm 1/10W	C200022360200
Q715	273 0207 003	Transistor KSC1845F	J5021845F0000	R36		Carbon film 47 kohm 1/5W	C00004736P520
Q716	269 0083 901	Transistor DTA114EK	J5200114E0210			Metal film 220 ohm 1/4W	C060022163050
				R37,38		Carbon film 4.7 kohm 1/5W	C00004726P520
D1,2	960 0117 501	Diode 1SS355	K005035500010	R39,40		Carbon chip 15 kohm 1/10W	C200015360200
D5,6	960 0117 501		K005035500010	R41,42		Carbon film 1 kohm 1/5W	C00001026P520
D9	963 0020 309		K000013300520	R43,44 R45		Carbon chip 33 kohm 1/10W	C200033360200
D10	960 0039 508		K047004000010	R45		Carbon film 3.3 kohm 1/5W	C00003326P520
D11~14	960 0117 608		K040400400520	11	244 2055 941		C060033165050
D15,16	963 0020 309		K000013300520	R47,48	244 2000 941	Carbon film 10 kohm 1/5W	C000033163635
D17,18	960 0117 608		K040400400520	R49~52		Carbon film 100 ohm 1/5W	C00001036F320
D20	963 0020 309		K000013300520	R53,54		Carbon chip 47 kohm 1/10W	C200047360200
			Europe & U.K. Models only	R55 R56		Carbon film 4.7 kohm 1/5W	C00004726P520
				n30		Oarbott film 4.7 Koriin 1/344	0000011201020

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R57,58		Carbon film 33 kohm 1/5W	C00003336P520	R719		Carbon film 30 kohm 1/5W	C00003036P520
R59,60		Metal film 10 ohm 1/4W	C060010063050				Europe & U.K. Models
R63	244 2043 953	Metal film 470 ohm 1W	C060047165050	R719		Carbon film 15 kohm 1/5W	C00001536P520
R64		Carbon film 10 kohm 1/5W	C00001036P520				Asia Model
R65		Carbon film 47 kohm 1/5W	C00004736P520	R720		Carbon chip 3.3 kohm 1/10W	C200033260200
R66		Carbon chip 47 kohm 1/10W	C200047360200	R721~724		Carbon chip 10 kohm 1/10W	C200010360200
R67		Carbon film 4.7 kohm 1/5W	C00004726P520	R725		Carbon chip 22 kohm 1/10W	C200022360200
R68		Carbon film 4.7 ohm 1/5W	C0004R706P520	R726		Carbon chip 100 kohm 1/10W	C200010460200
R68		Metal film 47 ohm 1/4W	C060047063050	R727		Carbon film 68 kohm 1/5W	C00006836P520
R69		Carbon film 10 kohm 1/5W	C00001036P520	R728		Carbon film 47 kohm 1/5W	C00004736P520
R70		Metal film 1.2 kohm 1/4W	C060012263050	R729		Carbon chip 2.7 kohm 1/10W	C200027260200
R71,72	244 2052 973	Metal film 560 ohm 1W	C060056165050	R730,731		Carbon chip 10 kohm 1/10W	C200010360200
R73,74	244 2002 010	Carbon chip 2.2 kohm 1/10W	C200022260200	R770		Carbon chip 1 kohm 1/10W	C200010260200
R90		Carbon chip 100 ohm 1/10W	C200010160200	R771		Carbon chip 2.2 kohm 1/10W	C200022260200
nau		Carbon chip 100 onin 1/1044	0200010100200	R772		Carbon chip 100 kohm 1/10W	C200010460200
R201,202		Carbon chip 390 ohm 1/10W	C200039160200	R773		Carbon film 10 kohm 1/5W	C00001036P520
R203,204		Carbon chip 150 kohm 1/10W	C200035160200	R775		Metal film 100 ohm 1/4W	C060010163050
		Carbon chip 47 ohm 1/10W	C200013480200	R776		Carbon chip 22 kohm 1/10W	C200022360200
R205		Carbon film 47 ohm 1/5W	C00004706P520	R777		Carbon chip 5.6 kohm 1/10W	C200056260200
R206		Carbon chip 430 ohm 1/10W	C20004708F320	R778,779		Carbon chip 200 kohm 1/10W	C200020460200
R207,208			C200043160200	R780,781		Carbon chip 2.7 kohm 1/10W	C200027260200
R209,210		Carbon chip 270 kohm 1/10W	C200027460200	R782,783		Carbon chip 200 kohm 1/10W	C200020460200
R211,212		Carbon chip 22 kohm 1/10W		R784		Carbon film 3.3 kohm 1/5W	C00003326P520
R213,214		Carbon film 470 kohm 1/5W	C00004746P520	R785		Carbon chip 3.3 kohm 1/10W	C200033260200
R216		Carbon film 100 ohm 1/5W	C00001016P520			Carbon chip 100 ohm 1/10W	C200033260200
R217,218		Carbon chip 6.2 kohm 1/10W	C200062260200	R786,787		· ·	C200056260200
R219,220		Carbon chip 10 kohm 1/10W	C200010360200	R788,789		Carbon chip 5.6 kohm 1/10W	C00004716P520
R221		Carbon chip 680 kohm 1/10W	C200068460200	R790		Carbon film 470 ohm 1/5W	C200047160200
R223,224		Carbon chip 100 kohm 1/10W	C200010460200	R791~793		Carbon chip 470 ohm 1/10W	C200047160200
R227,228		Carbon chip 6.2 kohm 1/10W	C200062260200	R794,795		Carbon chip 10 kohm 1/10W	C200010300200
R239,R240		Carbon chip 10 kohm 1/10W	C200010360200	D040		Matel film 100 ohm 1/4\A/	C060010163050
R241		Carbon film 100 kohm 1/5W	C00001046P520	R840		Metal film 100 ohm 1/4W Carbon film 8.2 kohm 1/5W	C000010103030
R242		Carbon chip 100 kohm 1/10W	C200010460200	R841			C200018260200
R245,246		Carbon chip 68 kohm 1/10W	C200068360200	R842		Carbon chip 1.8 kohm 1/10W	C200010360200
				R843		Carbon chip 10 kohm 1/10W	C200010360200
R701		Metal film 47 ohm 1/4W	C060047063050	R844		Carbon chip 3.3 kohm 1/10W	
R702		Carbon chip 100 ohm 1/10W	C200010160200	R845		Carbon chip 10 kohm 1/10W	C200010360200
R703		Carbon chip 3.3 kohm 1/10W	C200033260200	R846		Carbon film 1 kohm 1/5W	C00001026P520
R704		Carbon chip 680 ohm 1/10W	C200068160200	R847		Carbon chip 150 kohm 1/10W	C200015460200
R706		Carbon chip 22 ohm 1/10W	C200022060200	R848		Metal film 10 ohm 1/4W	C060010063050
			Europe & U.K. Models	R849		Carbon film 1 kohm 1/5W	C00001026P520
R706		Carbon chip 56 ohm 1/10W	C200056060200	R850		Carbon chip 1 Mohm 1/10W	C200010560200
			Asia Model	l .			Europe & U.K. Models only
R711		Carbon chip 10 kohm 1/10W	C200010360200	Dose ose		0 - 1 1 - 40 - 1 4 (40)	0000010360000
R712		Carbon chip 5.1 kohm 1/10W	C200051260200	R852,853		Carbon chip 10 kohm 1/10W	C200010360200
R713		Carbon chip 10 kohm 1/10W	C200010360200	R854		Carbon film 10 kohm 1/5W	C00001036P520
R714		Carbon film 5.6 kohm 1/5W	C00005626P520				Europe & U.K. Models onl
R715		Carbon film 220 ohm 1/5W	C00002216P520	R855		Carbon chip 10 kohm 1/10W	C200010360200
R716		Carbon chip 10 kohm 1/10W	C200010360200				Europe & U.K. Models on
R717		Carbon film 470 ohm 1/5W	C00004716P520				
R718		Carbon chip 82 ohm 1/10W	C200082060200	R901~927		Carbon chip 47 kohm 1/10W	C200047360200
				R928~930		Carbon chip 10 kohm 1/10W	C200010360200
	Part of the			R931		Carbon chip 180 ohm 1/10W	C200018160200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R932,933		Carbon chip 10 kohm 1/10W	C200010360200	C25,26	960 9002 219	Electrolytic 4700 μF/50V	D040472087000
R934		Carbon chip 330 ohm 1/10W	C200033160200	∆ C27~29		Ceramic 0.01 µF/500V	D00410359D050
			Europe & U.K. Models only	C30	254 4260 087	Electrolytic 10 μF/50V	D040100087050
R935		Carbon chip 220 ohm 1/10W	C200022160200	C31	254 4261 028	Electrolytic 100 μF/50V	D040101087060
			Europe & U.K. Models only	C32~34		Ceramic 0.01 μF/50V	D004103277050
R936		Carbon chip 330 ohm 1/10W	C200033160200	C35~38		Film 0.0047 μF/100V	D02047306C060
			Europe & U.K. Models only	C43		Ceramic 0.01 μF/50V	D004103277050
R937		Carbon chip 220 ohm 1/10W	C200022160200	C44	254 4260 087	Electrolytic 10 μF/50V	D040100087050
			Europe & U.K. Models only	C45	254 4250 042	Electrolytic 330 μF/6.3V	D040331081050
R938		Carbon chip 330 ohm 1/10W	C200033160200	C46	254 4254 051	Electrolytic 220 μF/16V	D040221083090
			Europe & U.K. Models only	C50	254 4256 088	Electrolytic 1000 μF/25V	D040102084050
R939		Carbon chip 220 ohm 1/10W	C200022160200				
			Europe & U.K. Models only	∆ C150	963 0020 804	Ceramic 0.0047 µF/250V	D008472089000
R940		Carbon chip 1 Mohm 1/10W	C200010560200				Europe & U.K. Models only
R941		Carbon film 10 kohm 1/5W	C00001036P520				
R942		Carbon film 470 ohm 1/5W	C00004716P520	C201,202		Ceramic chip 330 pF/50V	D010331167200
R943,944		Carbon chip 1 kohm 1/10W	C200010260200	C203,204	254 4260 087	Electrolytic 10 µF/50V	D040100087050
R945		Carbon chip 150 ohm 1/10W	C200015160200	C205,206		Ceramic chip 330 pF/50V	D010331167200
R946		Carbon chip 180 ohm 1/10W	C200018160200	C207,208	254 4252 037	Electrolytic 100 μF/10V	D040101082060
R947		Carbon chip 150 ohm 1/10W	C200015160200	C209,210		Ceramic chip 0.001 μF/50V	D011102777200
R948		Carbon chip 180 ohm 1/10W	C200018160200	C211,212		Film 0.012 μF/100V	D02012306C060
R949		Carbon chip 270 ohm 1/10W	C200027160200	C213,214		Film 0.0033 μF/100V	D02033206C060
R950		Carbon chip 390 ohm 1/10W	C200039160200	C215,216	254 4260 058	Electrolytic 2.2 µF/50V	D0402R2087100
R951		Carbon chip 680 ohm 1/10W	C200068160200	C221,222		Ceramic chip 100 pF/50V	D010101167200
R954		Carbon chip 1 kohm 1/10W	C200010260200	C223		Ceramic 1000 pF/50V	D004102067060
R955		Carbon film 47 ohm 1/5W	C00004706P520	C224,225		Ceramic 100 pF/50V	D004101067060
R956,957		Carbon chip 10 kohm 1/10W	C200010360200	C227		Ceramic chip 0.01 μF/50V	D011103777200
R959~961		Carbon film 1 kohm 1/5W	C00001026P520	C228		Ceramic chip 0.022 μF/50V	D011223777200
R962~965		Carbon chip 1 kohm 1/10W	C200010260200	C229,230	254 4260 045	Electrolytic 1 μF/50V	D040010087070
R967,968		Carbon chip 1 kohm 1/10W	C200010260200	C231~234		Ceramic chip 100 pF/50V	D010101167200
R969		Carbon film 1 kohm 1/5W	C00001026P520	C235,236	254 4260 045	Electrolytic 1 μF/50V	D040010087070
R970,971		Carbon chip 1 kohm 1/10W	C200010260200			. 2	
R972		Carbon film 1 kohm 1/5W	C00001026P520	C701	254 4254 035	Electrolytic 47 μF/16V	D040470083080
R973,974	1	Carbon chip 1 kohm 1/10W	C200010260200	C704	254 4260 045	Electrolytic 1 μF/50V	D040010087050
R975		Carbon film 1 kohm 1/5W	C00001026P520	C705,706		Ceramic chip 0.01 μF/50V	D011103597200
R976~980		Carbon chip 1 kohm 1/10W	C200010260200	C707	254 4260 087	Electrolytic 10 µF/50V	D040100087050
R981		Carbon chip 10 kohm 1/10W	C200010360200	C708		Ceramic chip 0.022 μF/50V	D011223777200
				C709	254 4260 045	Electrolytic 1 μF/50V	D040010087050
VR702	960 0119 907	Semi fixed resistor 22 kohm	C544223015140	C710		Ceramic 100 pF/50V	D004101277050
VR703	960 0120 006	Semi fixed resistor 220 kohm	C544224015130	C711,712		Ceramic chip 0.022 µF/50V	D011223777200
				C713	254 4260 061	Electrolytic 3.3 µF/50V	D0403R3087100
CARCO	IODO OFO)		C714		Ceramic chip 100 pF/50V	D010101167200
	TORS GROUP		D040404407000	C715		Ceramic chip 33 pF/50V	D010330167200
C1,2		Ceramic chip 100 pF/50V	D010101167200	C716		Ceramic 0.001 μF/50V	D004102277050
C3,4		Ceramic chip 680 pF/50V	D010681167200	C717		Ceramic chip 100 pF/50V	D010101167200
C5~11		Ceramic chip 100 pF/50V	D010101167200	C718		Ceramic 22 pF/50V	D000220067050
C12,13	054 4054 040	Ceramic chip 0.001 µF/50V	D011102777200	C719	254 4260 074	Electrolytic 4.7 µF/50V	D0404R7087250
C15	254 4254 019		D040220083070	C720	254 4260 061	Electrolytic 3.3 µF/50V	D0403R3087100
C16	254 4260 061		D0403R3087100	C721		Film 0.015 μF/100V	D02015306C060
C17	254 4260 045		D040010087070	C722	254 4260 087	Electrolytic 10 μF/50V	D040100087050
C18	054 4055	Film 0.0047 µF/100V	D02047206C060	C723		Ceramic 0.01 µF/50V	D004103277050
C19,20	254 4256 949		D040101084060	C724		Ceramic chip 0.01 μF/50V	D011103597200
C23,24	254 4260 087	Electrolytic 10 μF/50V	D040100087050	I · L			

Ref. No.	Part No.	Part Name	Remarks
C725		Ceramic chip 6 pF/50V	D010060107200
C726		Ceramic chip 0.047 μF/50V	D011473597200
C727		Ceramic chip 15 pF/50V	D010150167200
C728		Ceramic 0.1 µF/25V	D004104594050
C729	254 4260 087	Electrolytic 10 µF/50V	D040100087050
C730		Ceramic 0.022 μF/50V	D004223597050
C770	254 4260 045	Electrolytic 1 µF/50V	D040010087050
C771	254 4260 061	Electrolytic 3.3 µF/50V	D0403R3087100
C772	254 4260 032	Electrolytic 0.47 µF/50V	D040R47087050
C773	254 4260 087	Electrolytic 10 µF/50V	D040100087050
C774	201 1200 001	Film 0.047 µF/100V	D02047306C060
C775		Ceramic chip 470 pF/50V	D010471167200
C776	254 4260 061	Electrolytic 3.3 µF/50V	D0403R3087100
C777	234 4200 001	Ceramic 0.01 µF/50V	D004103277050
C778	254 4254 035	Electrolytic 47 µF/16V	D040470083080
	254 4254 055		D010331167200
C779	254 4260 087	Ceramic chip 330 pF/50V Electrolytic 10 µF/50V	D040100087050
C781	204 4200 007	Ceramic chip 270 pF/50V	D010271167200
C782,783		Ceramic chip 270 pr/50V	Europe & U.K. Models
0700 700		Caramia ahin 470 nF/F0\/	D010471167200
C782,783		Ceramic chip 470 pF/50V	
0707	054 4054 005	EL	Asia Model
C785	254 4254 035	Electrolytic 47 μF/16V	D040470083080
C786,787		Film 0.0047 μF/100V	D02047206C060
C788,789	254 4260 058	Electrolytic 2.2 μF/50V	D0402R2087100
C790,791		Ceramic chip 0.001 μF/50V	D011102777200
C840	254 4254 035	Electrolytic 47 µF/16V	D040470083080
C841,842		Ceramic chip 22 pF/50V	D010220167200
C843		Film 0.027 μF/100V	D02027306C060
C844	254 4260 045	Electrolytic 1 μF/50V	D040010087050
C845		Ceramic 0.01 µF/50V	D004103277050
C846		Ceramic chip 0.01 μF/50V	D011103597200
C847	254 4254 035	Electrolytic 47 μF/16V	D040470083080
C848		Ceramic chip 100 pF/50V	D010101167200
C849	-	Ceramic 100 pF/50V	D004101277050
			Europe & U.K. Models only
C850,851		Ceramic chip 27 pF/50V	D010270167200
			Europe & U.K. Models only
C852	254 4254 019	Electrolytic 2.2 µF/50V	D0402R2087100
0002	204 4204 010	Elocitory to E.E per 700 v	Europe & U.K. Models only
C853	254 4254 035	Electrolytic 47 µF/16V	D040470083080
0000	207 7207 000	2.0001019110 97 μ1710 9	Europe & U.K. Models only
C854		Ceramic chip 560 pF/50V	D010561167200
0004		Octamic only 300 pr/30V	Europe & U.K. Models only
COFFOEC	254 4254 035	Electrolytic 47 μF/16V	D040470083080
C855,856	204 4204 035	Electrolytic 47 µF/16V	
Cora		Coromio chin 0.01E/E01/	Europe & U.K. Models only
C857		Ceramic chip 0.01 μF/50V	D011103597200
			Europe & U.K. Models only
C901,902		Ceramic chip 0.01 μF/50V	D011103777200
C903	254 4254 019		D040220083110
C904,905		Ceramic chip 0.01 µF/50V	D011103777200
- 50-,000		- 5.5 5p 5.5.7 pt. 700 V	

	Ref. No.	Part No.	Part Name	Remarks	
	C906	254 4254 035	Electrolytic 47 μF/16V	D040470083070	
١	C960		Ceramic chip 0.01 μF/16V	D005103773530	
١					
ı	OTHER PA	ARTS GROU)		Q'ty
١	∆ A501	960 0142 301	AC outlet	G435040110000	1
I			'		
I	CF701,702	261 0097 003	Ceramic filter SFE10.7MS3GH-A	E430107000150	2
				Europe & U.K.	
				Models	
I	CF701,702	261 0120 006	Ceramic filter SFE10.7MS3GK-A	E43010R700510	2
ı				Europe & U.K.	
	0.550	000 0040 400	0	Models E43010R700300	2
	CF701,702	960 0043 400	Ceramic filter SFE10.7MA5	Asia Model	4
	CF703	9LB P005 01	Ceramic filter BFU450C4N	E431450000110	1
	CF703	261 0079 005	Ceramic resonator CSB456F11		1
	01/04	201 0013 000	Ostalino rosolialor OSD-501 11		
	CN1	960 0118 801	8P connector base	L102526700800	1
	CN6	960 0118 306	9P connector cord	L000101090010	1
	CN202	960 0118 607	12P shield cord	L000251120010	1
	CN501	960 0118 908	2P connector base	L108039602010	1
	CN502	960 0118 908	2P connector base	L108039602010	1
				Europe & U.K.	
				Models	
	CN502	960 0142 408	3P connector base	L108353280310	1
				Asia Model	4
	CN601	960 0118 704	7P connector base	L102526700700 L102526807010	1
	CN601 CN901	960 0119 402 960 0119 004	7P connector base	L140520041610	1
	CINSUI	300 0113 004	Tor connector base	L140020011010	,
	 ∆ F501	960 0142 505	Fuse 250V 1.25A	G650122251160	1
	 ∆ F502	960 0142 602	Fuse 250V 2.5A	G650252251160	1
				Asia Model only	
	▲ F503	960 0142 709	Fuse 250V 1A	G650102251160	1
	FL901	960 0007 103	FLD (11-BT-127GK)	K530000290010	1
			CAUR TERMINAL	0700040070040	
	GND1	960 9006 600	GND TERMINAL	3790040876010	1
	J101		Carbon chip 0 ohm 1/8W	C200000061300	1
ŀ	J101 J103~110		Carbon chip 0 ohm 1/8W	C200000061300	8
	J149		Carbon chip 0 ohm 1/8W	C200000061300	1
	J751		Carbon chip 0 ohm 1/8W	C200000061300	1
l				Europe & U.K.	
				Models only	
	J752		Carbon chip 0 ohm 1/8W	C200000061300	1
	J754,755		Carbon chip 0 ohm 1/8W	C200000061300	2
	J757~761		Carbon chip 0 ohm 1/8W	C200000061300	
	J763~768		Carbon chip 0 ohm 1/8W	C200000061300	1
	J925~928		Carbon chip 0 ohm 1/8W	C200000061300	1
	J932,933		Carbon chip 0 ohm 1/8W	C200000061300	1
	J938		Carbon chip 0 ohm 1/8W	C200000061300	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
J960		Carbon chip 0 ohm 1/8W	C200000061300	1	X901	399 0243 903	Ceramic 8.38 MHz	E8308R3800010	1
JACK1	960 0004 504	4P pin jack	G602040045000	1			Heat sink	2120000400010	1
JACK2	960 0005 406	6P pin jack	G603060046020	1		_	Heat sink	2120000810000	2
JACK3,4	960 0004 407	Mini jack	G401031102010	2			Wire clamp	4330000120000	1
JACK5	960 0093 007	4P speaker terminal	G612041037310	1		960 0005 804	Fuse holder	G645000050010,	2
JACK201	960 0004 504	4P pin jack	G602040045000	1				for F501,503	
JACK601	960 0069 400	Mini jack (G)	G401035180010	1		960 0117 909	Fuse holder	G646000020010,	1
JACK701	960 0120 307	Antenna terminal	G59004046000A	1				for F502	
								Asia Model only	
JP3	960 0118 403	6P connector cord	L000131060010	1		960 0050 309	FL supporter	4070020076010,	1
JP5	960 0120 501	13P connector base	L140520041310	1				for FL901	
JP101	960 0120 404	9P connector base	L101530140910	1		960 9000 114	Screw 3×8 CBTS(B)-Z	B020030081B10	3
JP103	960 0118 500	2P+2P shield cord	L000201040050	1					
JP901	960 0119 606	16P cable holder	L110510161610	1					
JP901	960 0119 703	16P flat cable	L322121162610	1					
JP902	960 0119 509	13P cable holder	L110510161310	1					
JP902	960 0119 800	13P flat cable	L322321132610	1					
JP903	960 0119 305	4P connector cord	L000650040010	1					
K1	960 0091 203	Relay (DH24D2)	G680000220010	J					
∆K2	960 0118 209	Relay (HR-CR7)	G680000210000	1					
			Europe & U.K.						
			Models only						
								:	
L1,2	960 0005 008	Inductor 0.15 µH	D330R15000000	1					
L701	960 0007 365	Inductor 1 µH	D3301R0700520						
L702	960 0010 307	Inductor 10 μH	D330100700520	1					
Buses	000 0050 105	D	E040400000010						
RM901	960 0050 105	Remocon sensor	E940460200010	1					
S901~909	960 0069 206	Tact switch	G180215050010	9					
3901~909	900 0009 200	I dot Switch	Q100213030010						
∆ SW101	963 0027 700	Slide switch	G060040550010	1					
223 011 101	JOG COLL TOO	GROO CHILDS	Asia Model only						
T701	960 0007 336	MW RF osc. coil	D940209000010	1					
T702	960 0007 349		D951731561100						
T703	960 0007 352		D951731561200	1		-			
T704	960 0007 323	MW IF coil	D950209000010	1			3		
T705	960 0037 607	Antibirdie filter	E403126832410	1					
T706,707	960 0050 600	MPX filter	E401253503100	2					
					11				
TU701	960 0092 008	FM tuner pack	E900504000010	1					
X701	960 0120 103	Crystal 7.2 MHz	E8007R200007	0 1					
X702	960 0091 805	Crystal 4.332 MHz	E8004R332005	0 1					
			Europe & U.K.						
			Models only						
X703	960 0142 806	Ceramic 4.00MHz	E830400000070	1				1.	
			Europe & U.K.						
			Models only					*	
					J L				

AMP. P.W.B. UNIT ASS'Y

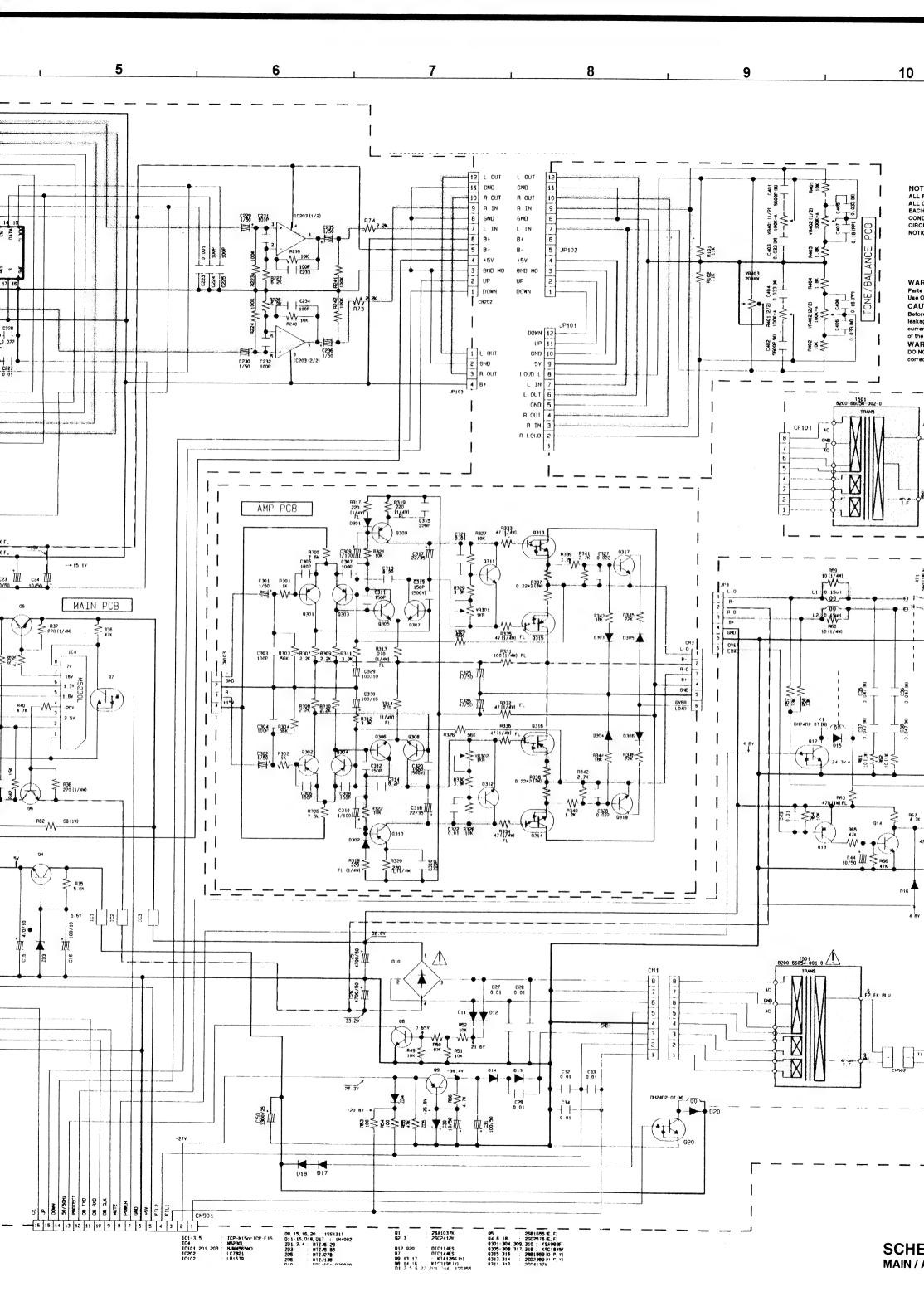
	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	3
Ref. No.	DUCTORS G		Hellians	C313,314	T dit ito.	Ceramic 8 pF/50V	D000080117060	
T			1407400000010	C315,316		Ceramic 220 pF/50V	D004221277050	
IC102	263 0476 002	IC LB1639	J127163900010	C317,318	254 4260 993	Electrolytic 22 µF/35V	D040220085050	
		- 10101005	150000050050	△ C319.320	204 4200 000	Ceramic 150 pF/500V	D00015106D05	00000000000
Q301~304		Transistor KSA992F	J5000992F0050	C321,322		Ceramic 0.01 µF/50V	D004103277050	
Q305~308		Transistor KSC1845F	J5021845F0000	C325,326	254 4261 015	Electrolytic 47 µF/50V	D040470087060	
Q309,310		Transistor KSA992F	J5000992F0050	C327,328	204 4201 010	Ceramic 0.022 µF/50V	D004223597050	
Q317,318	273 0207 003	Transistor KSC1845F	J5021845F0000	C329,330	254 4252 037	Electrolytic 100 μF/10V	D04010108206	
			14000040000000	0329,030	254 4252 001	Licetrolytic 100 pti 710 v	201010100200	
D301~306	963 0020 309	Diode 1SS133	K000013300520	C401.402		Film 0.0056 µF/100V	D02056206C06	0
			: .	C403~406		Film 0.033 µF/100V	D02033306C06	
RESISTO	RS GROUP			C407,408	256 1035 004	Metalized 0.18 μF/50V	D02318406705	
R101,102		Carbon chip 11 kohm 1/10W	C200011360200	1	200 1000 001	Wording of the private		
,								
R301,302		Carbon film 1 kohm 1/5W	C00001026P520	OTHER P	ARTS GROU	T		Q'ty
R303,304	:	Carbon film 56 kohm 1/5W	C00005636P520	CN3	960 0116 502		L102526806010	1
R305,306		Carbon film 7.5 kohm 1/5W	C00007526P520	CN4	960 0117 103	12P connector base	L101352371210	1
R307~310		Carbon film 2.2 kohm 1/5W	C00002226P520	CN103	960 0116 405	4P connector base	L101530150410	1
R311,312		Carbon film 1.5 kohm 1/5W	C00001526P520					
R313,314		Metal film 270 ohm 1/4W	C060027163050	J130-134	_	Carbon chip 0 ohm 1/8W	C200000061300	5
R317~320		Metal film 220 ohm 1/4W	C060022163050					
R321,322		Carbon film 15 kohm 1/5W	C00001536P520	JP101	960 0116 900	12P connector base	L101530141210	1
R325,326		Carbon film 56 kohm 1/5W	C00005636P520	JP102	960 0116 803	12P connector base	L101353361210	1
R327,328		Carbon film 10 kohm 1/5W	C00001036P520	11	de la constante de la constant			
R329,330		Carbon film 3.3 kohm 1/5W	C00003326P520					
R331		Metal film 100 ohm 1/4W	C060010163050					
R332~336		Metal film 47 ohm 1/4W	C060047063050					
R337,338	960 0091 504	Winding 0.22 ohm 3W	C145R22077610					
R339,340		Carbon film 1.2 kohm 1/5W	C00001226P520					
R341,342		Carbon film 2.7 kohm 1/5W	C00002726P520					
R343		Carbon film 18 kohm 1/5W	C00001836P520					
R344,345		Carbon film 22 kohm 1/5W	C00002236P520					
R346		Carbon film 18 kohm 1/5W	C00001836P520					
			00000100000000					
R401,402		Carbon film 10 kohm 1/5W	C00001036P520					
R403,404	1.	Carbon film 1.8 kohm 1/5W	C00001826P520					
VR101	960 0117 006	Variable resistor 100 kohm	C495121400260					
VR301,302	960 0116 308	Semi fixed resistor 1 kohm	C544102015110					

VR401,402	960 0116 706	Variable resistor 100 kohm	C451121400100					
VR403	960 0116 609	Variable resistor 200 kohm	C451112400010					-
CAPACI	TORS GROU	P		1				
C113	254 4260 087		D040100087050	11				
C114		Ceramic 0.01 μF/50V	D004103277050					4
C201 202	254 4263 042	Electrolytic 1 μF/100V	D040010086060					
C301,302	204 4200 042	Ceramic 100 pF/50V	D004101277050					
C303~308	254 4263 042		D040010086060					
C309,310	204 4200 042	Ceramic 150 pF/50V	D004151277050					
C311,312		Octamic 130 pt /30 v	D00 110 1277 000					

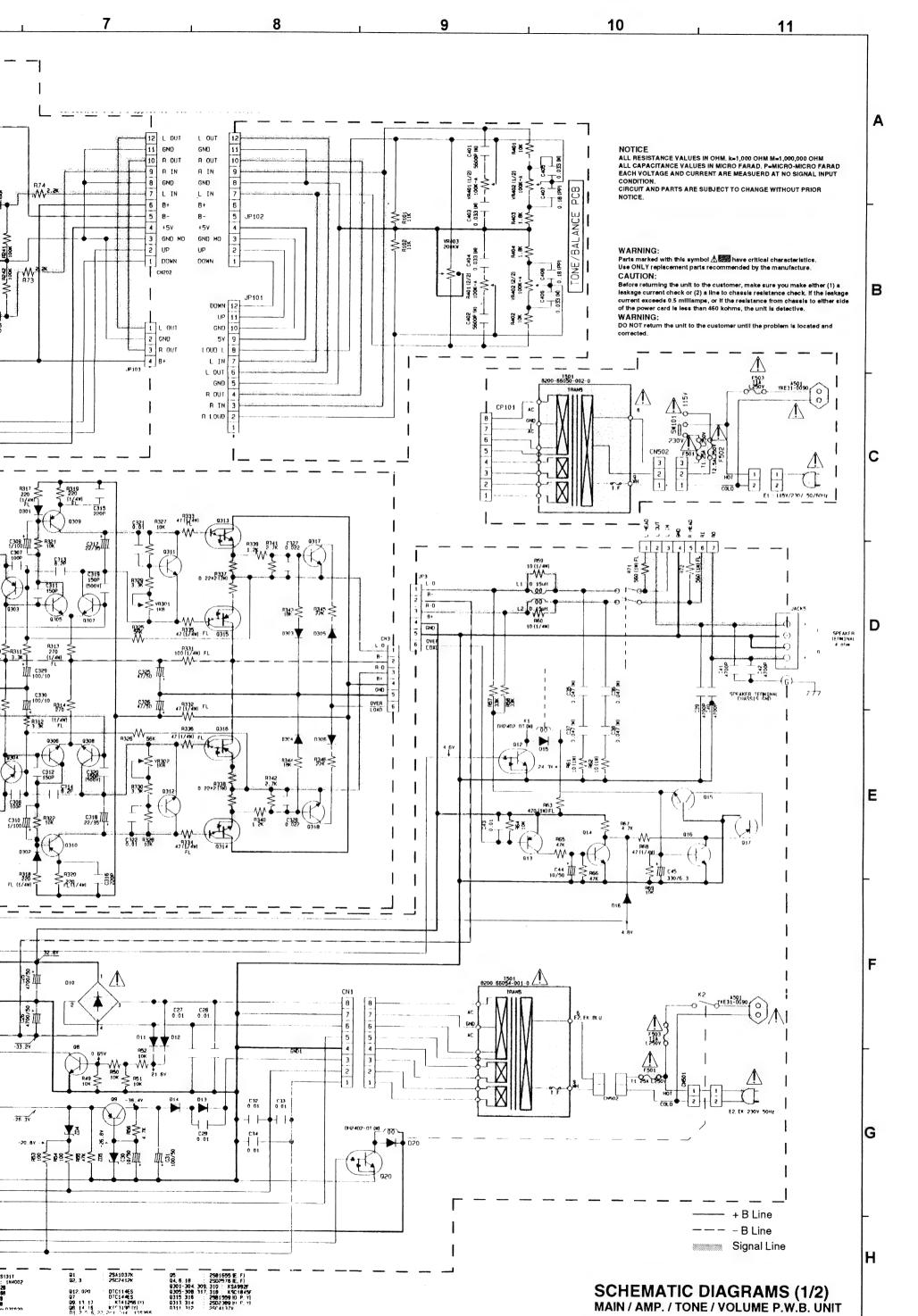
D-F100

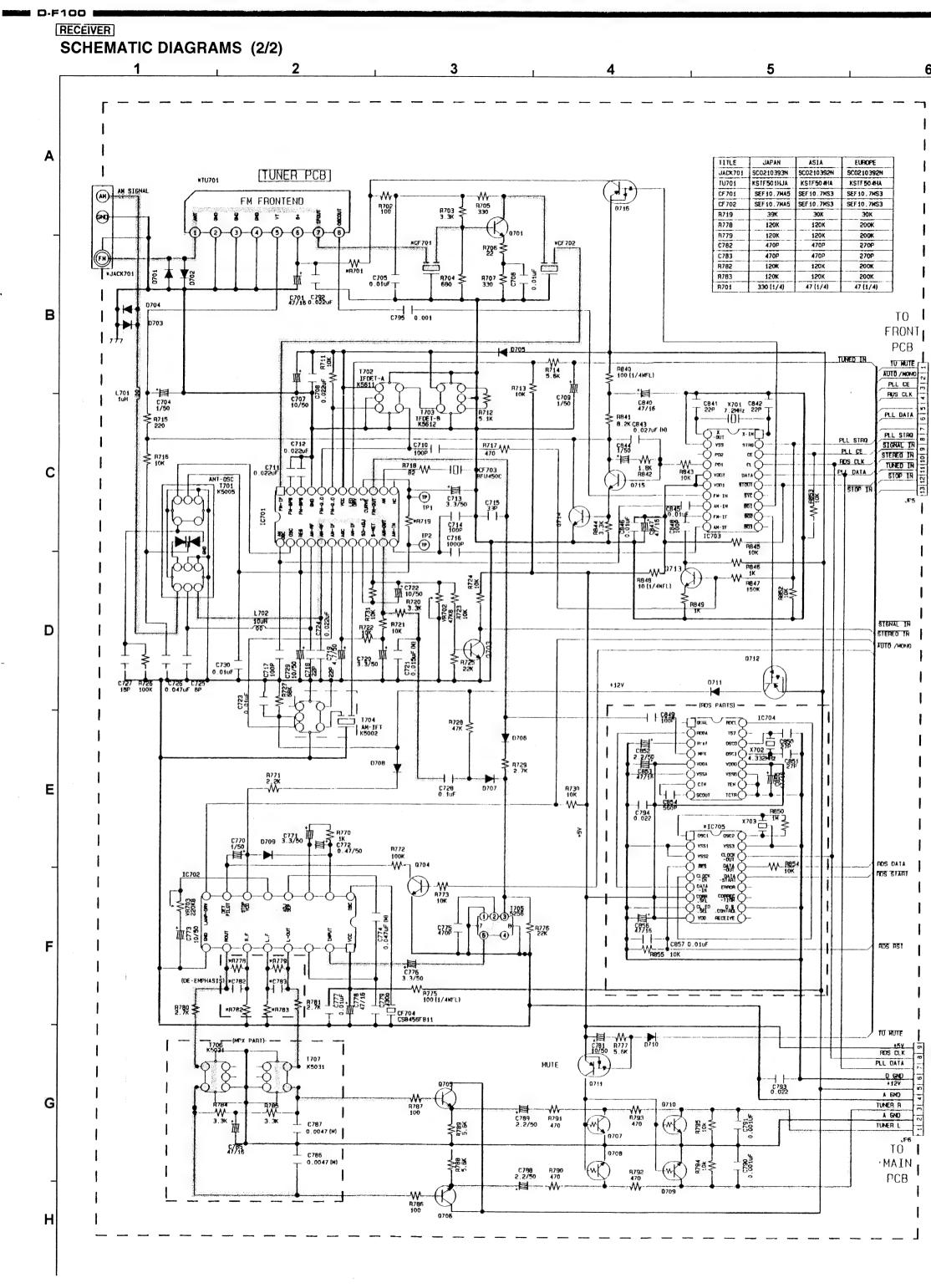
PARTS LIST OF EXPLODED VIEW

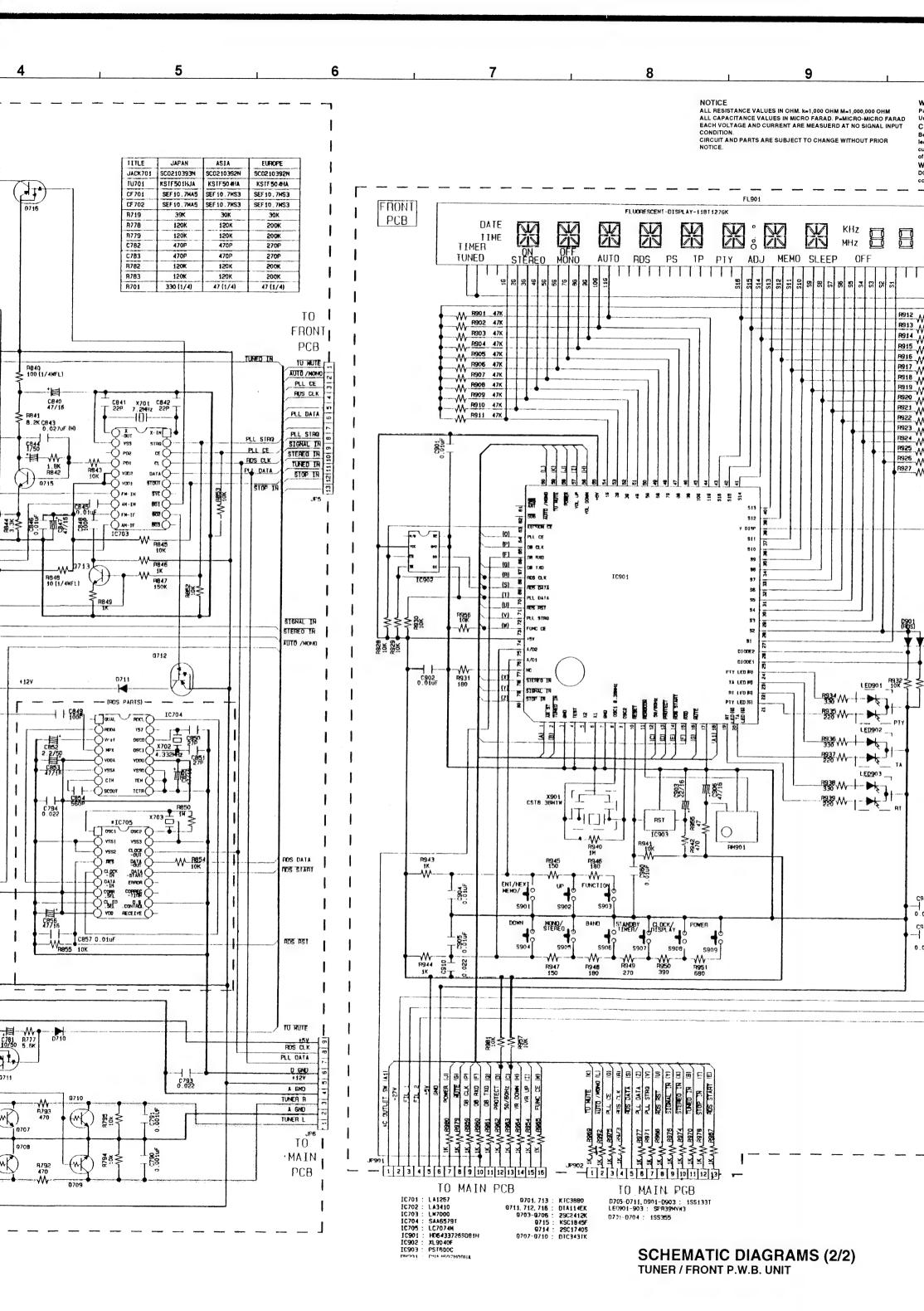
Ref.	No.	Part No.	Part Name	Remarks	Q'ty	Ref. N	۱o.	Part No.	Part Name	Remarks	Q'ty
	_	960 0116 201	Amp. P.W.B. unit ass'y	7025HK9808011	1		31	960 0143 106	Function lens	3710210003000	1
١,	- 7		Tone P.W.B. unit							Europe & U.K. Models only	
L	8		Volume P.W.B. unit				32	960 0114 407	Top cover	3000210006000	1
	— 23 l		Amp. P.W.B. unit			*	33		Fuse cap	4500020001010, for F503	-1
		1	Main P.W.B. unit ass'y	7025HK9808010	1					Europe & U.K. Models	
	- 14	900 0117 220	Main 1 . W.D. unit ass y	Europe & U.K. Models	. '	*	33		Fuse cap	4500020001010,	2
		000 0117 010	Main D.M.D. unit apply	7025HK9808040	1		00		1 400 045	for F501,502	
	— 14	900 0117 213	Main P.W.B. unit ass'y	Asia Model	'					Asia Model	
			T D W D	Asia Model		*	34	060 0120 705	7P connector cord	L000401070010, CN601	1 1
L	17	: 1	Tuner P.W.B. unit			^	34	900 0120 703	77 Connector Cord	2000 10 10 10 10 10 10 10 10 10 10 10 10	
1	29		Front P.W.B. unit								
				500001000000		SCR	EWS				
			DENON badge	5630210008000	1		Α	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10	21
	2	960 0142 903	Front panel	3067210028010	1		Α		Screw 3×8 CBTS(B)-B	B020030083B10,	2
				Europe & U.K. Models			, ,			for SW101	
	2	960 0114 504	Front panel	3067210028020	1					Asia Model only	
				Asia Model			В	960 9000 130	Screw 3×8 CFTS(B)-B	B020030083F10	2
	3	960 0115 309	Display window	5077210043010	1		С	960 9000 130	Screw 3×8 CBTS(S)-Ni	B010330084B10	1
	4	960 0115 503	Control knob	5087210011010	3			i	Screw 3×8 CBTS(S)-INI Screw 3×14 CHTS(B) SW W-Z		6
	5	960 0115 406	Volume knob	5080210051000	1		. D	[Screw 3×14 CHTS(B) SW W-Z	B020030171B10	1
	6	960 0114 601	Front frame	3217210001010	1		E		` '		16
	9	960 0003 505	Foot cushion	4050020075010	4		F		Screw 3×8 CBTS(B)-Z	B020030081B10	
	10	960 0003 408		4007000061010	2		G	960 9000 172	Screw 4×8 CBTS(S) SW W-Z	B028940081B10	4
	11		P.W.B. bracket	4010210066000	1						
	12	960 0115 008		4000210001000	2						
	13	960 0113 008		3200210056000	1						
		1	Terminal bushing	2410040353010	4	II					
	18	-			1						
_	19		Cord stopper	4380040162010							
Δ	20	960 0032 301	AL COIO	L061000410010							
١				Europe & U.K. Models							
Δ	20	960 0109 205	AC cord	L061000290010	1						
				U.K. Model	١.						
Δ	20-1	960 0143 009	AC cord ass'y	L068000000040	1						
				U.K. Model only							
	21	960 0114 821	Back chassis	3207210016010	1	11					
				Europe & U.K. Models	6						
	21	960 0114 818	Back chassis	3207210016110	1	II					
				Asia Model		II		A POST			
	22	960 0114 106	Heat sink L bracket	4010210016000	. 1	II					
	23-1	960 0090 107	Transistor 2SB1559Y	J5011559Y0170,	2						
				Q315,316		II					
	23-2	960 0114 300	Transistor 2SC4137	J5024137V0130,	2	II					
				Q311,312							
	23-3	960 0090 000	Transistor 2SD2389Y	J5032389Y0170,	2	II					
				Q313,314		II					
	24	960 0114 203	Heat sink R bracket	4010210026000	1	11					
	25		Main heat sink	2120210028000	1	H					
	26	960 0115 202		4420200003010	1	11					
A				8200660540010, T10		II					
Δ	27	960 0137 507	ruwer dans.	1	1						
		000 0407 001	D-west-	Europe & U.K. Modeli		II					
A	27	960 0137 604	Power trans.	8200660500020, T10	1 1	11					
				Asia Model	1.	11					
	00	960 0003 301	P.W.B. support	4070001601010	1 1	11		1	1	1	1
	28 30	960 0114 708		5070210033000	1	11					



RECEIVER







10 Parts marked with this symbol 🛦 🌇 have critical characteristics. ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P-MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION. Use ONLY replacement parts recommended by the manufacture CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 450 kohms, the unit is detective. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR WARNING:
DO NOT return the unit to the customer until the problem is located and corrected. В DATE TIME MHZ TIMER STEREO TUNED OTUA **RDS** PS TP ADJ MEMO SLEEP **OFF** PTY R912 W 47K R913 W 47K R914 W 47K W R902 47K M R903 47K M R904 47K R915 W 47K R916 W 47K R917 W 47K M R905 47K R906 47K R907 47K R918 W 47K M R908 47K R920 W 47K ₩ R909 47K ₩ R910 47K H922 W 47K W R911 47K M ESER R924 W 47K R925 W 47K R926 W 47K R927 W 47K 508 \$12 V DISP (0) 811 (P) DB CLX 510 (F) DIF TXD (0) (R) FIOS CLK (S) FIDS DATA (11) PLL DATA W. AUS AST (V) PLL STRO (M) FUNC CE JAPAN ASIA 0901 1/02 D3 00ES 1/01 0100E1 PTY LED (R) STEREO IN 0.01UF 1 <u>ED9</u>01 _10K ≥ ≥ 10K TA LED (FO STORAL TR PTY LED (6) redaus LED903 22/16 CSTB. 38HTW RST 0 10903 RM901 P946 ₩-FUNCTION 0 055 C850 S90 I DOWN 0.022 **覧会会験** 1234567 35 5 5 2 2 2 2 2 JP902 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 TO MAIN PCB TO MAIN PGB D705-0711, D901-0903: 155133T LED901-903: SPR39NYN3 - +BLine 10 MATE 10701: LA1267 10702: LA3410 10703: LM7000 10704: SAA6579T 10705: LC7074M 10901: HD64337265081H 10902: XL9040F 10903: PST8000 10001: CM 1502H00HA 0701, 713 : KTC3880 0711, 712, 716 : DTA114EK 0703-0706 : 25C2412K 0715 : KSC1845F 0714 : 25C1740S 0707-0710 : DTC3431K Signal Line 0701-0704 : 185355 **SCHEMATIC DIAGRAMS (2/2) TUNER / FRONT P.W.B. UNIT**

E

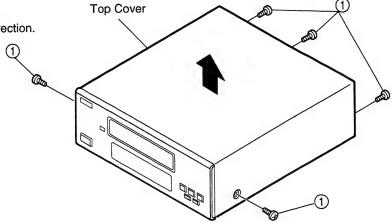
DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

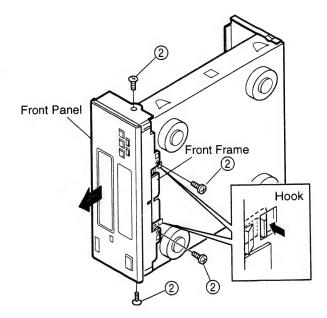
1. Top Cover & Front Panel

(1) Remove 5 screws 1 fixing the Top Cover.

(2) Detach the Top Cover as shown in the arrow direction.



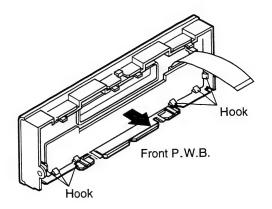
- (3) Remove 4 screws ② on the bottom and both sides.
- (4) Disconnect 29P FPC and 7P flat cable from their connector bases.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

FRONT P.W.B.

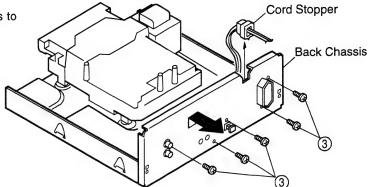
Detach the Front P.W.B. to the arrow direction with releasing 6 Hooks.



3 Back Chassis

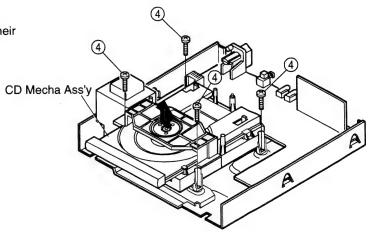
(1) Take off the Cord Stopper from the Back Chassis.

(2) Remove 5 screws ③, and detach the Back Chassis to the arrow direction.



4. CD Mecha. Ass'y

- (1) Remove 4 screws 4 fixing the CD Mecha. Ass'y.
- (2) Disconnect 20P FPC and 5P Connector Cord from their connector bases.
- (3) Detach the CD Mecha. Ass'y to the arrow direction.

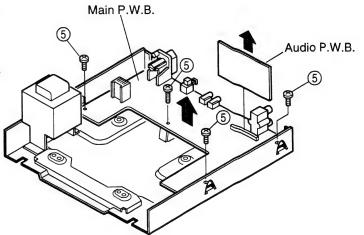


AUDIO P.W.B.

(4) Detach the Audio P.W.B. by disconnecting from its connector as shown in the arrow direction.

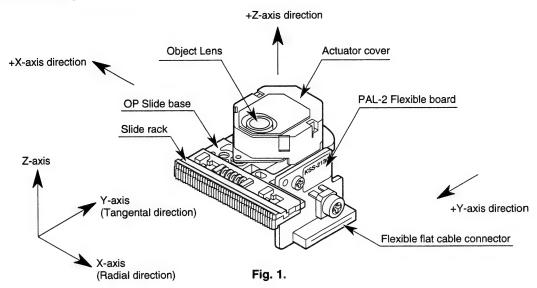
MAIN P.W.B.

(5) Remove 4 screws (5), and detach the Main P.W.B. to the arrow direction.



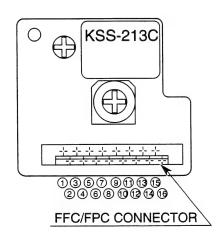
NOTE FOR HANDLING OF THE LASER PICK-UP

Descripiton of components

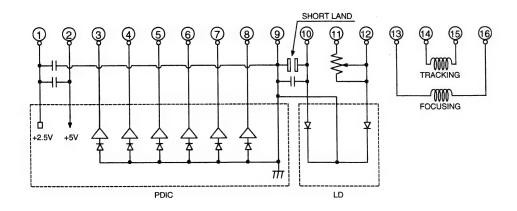


Pin connection diagram

Optical pick-up connector



Terminal No.	Na	ıme	IN/OUT
1	PD IC	Vc	IN
2		Vcc	IN
3		E	OUT
4		D	OUT
5		Α	OUT
6		В	OUT
7		С	OUT
8	+	F	OUT
9	LD PD IC	GND	IN
10	LD	LD	IN
11		VR	IN
12	+	PD	OUT
13	FCS	(+)	IN
14	TRK	(+)	IN
15	TRK	(-)	IN
16	FCS	(-)	IN



Handling instructions

This model is assembled and precision adjusted in maker's plant. Never attempt to disassemble or readjust it. Follow the instructions below when handling.

1. General

(1) Storage

Store and transport this model with the +Z axis pointing up or +Y axis pointing down. (See Fig. 1.)

Avoid storing the KSM-213 series in hot, humid or dusty conditions.

(2) Handling

This model is a precision unit. Be careful not to subject it to shocks by dropping or rough handling.

2. Laser diode

(1) Shield your eyes from the laser beam

The output from the LD is only 400 μ W maximum after going through the objective lens. However, the intensity of the focused beam reaches about 0.7 \times 10 4 W/cm 3 . Never look directly into the LD or observe the laser beam through another lens or mirror. If you need to view the beam, use an infrared viewer or an ITV camera.

(2) Toxicity of As

The LD chip is manufactured from GaAs and GaAlAs, which contains toxic As(Arsenic). The toxicity of As in this form is far lower than other As compounds such as As2O3 and AsCl3, and the As content of one chip is very small.

However, avoid putting the chip in an acid or alkali solution, heating it over 200°C, or putting it your mouth. Defective LDs from the production line and parts removed in servicing should be disposed of with due care.

(3) Avoid current surges and electrostatic discharges

The LD may deteriorated if its output is too high and damage may occur if it is exposed to large currents for even a short time. Protect the LD drive circuit from current surges caused by switches or other sources. An electrostatic discharge from the human body may destroy the LD instantaneously if it is handled carelessly. LD terminals are factory strapped before shipment to protect LD from electrostatic discharges during transportation. For safe handling of the LD, ground your body, measuring equipment, jigs, and tools during installation. Use of a grounding mat on the workbench and floor is recommended. After connector insertion, unstrap the LD terminal with a soldering iron with its metallic tip grounded or worse insulation resistance is 10 megaohms or more (at 500V DC) five minutes after it is tuned on. The temperature of the soldering iron tip must be 320°C or below (30W) and the unstrapping should be performed quickly.

3. Actuator

(1) Actuator

The performance of the actuator may be affected if a magnetic material is located nearby, since the actuator has a strong magnetic field. Do not allow foreign materials to enter through gap in the cover.

(2) Lens cleaning

Dust or dirt on the objective lens has an adverse affect on pick-up performance. Gently wipe the lens using tissue moistened with isopropyl alcohol.

4. Lubrication

This drive unit need no lubrication when installed nor during use. Should lubrication become necessary use only grease "G-474B" or "G-474BY"(KANTO KASEI KOGYO) in the feedbearings and in the feed mechanism. Other types of oil or grease must not be used!

5. Handling

Hold the diecast chassis when handling the drive unit. Note that the LD and PD may be damaged if you come in contact with any of circuit boards.

Precautions in use

1. APC Circuit

The output laser power must be controlled with the built-in monitor photodiode, since laser power changes with temperature. To prevent the characteristics dispersion of the monitor photodiode, the relation between the potentiometer(VR) attached to the pick-up and the monitor photodiode is factory adjusted so that the RF output will be constant.

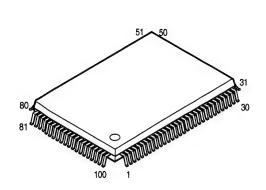
2. Connections

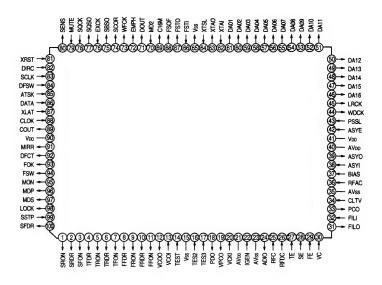
Use the specified connectors for electrical connections. The eye pattern may deteriorate if a digital noise source such as a microcomputer is positioned near the harness from the photodiode. The laser may deteriorate if the actuater or laser diode connection is poor, securely connect these connectors.

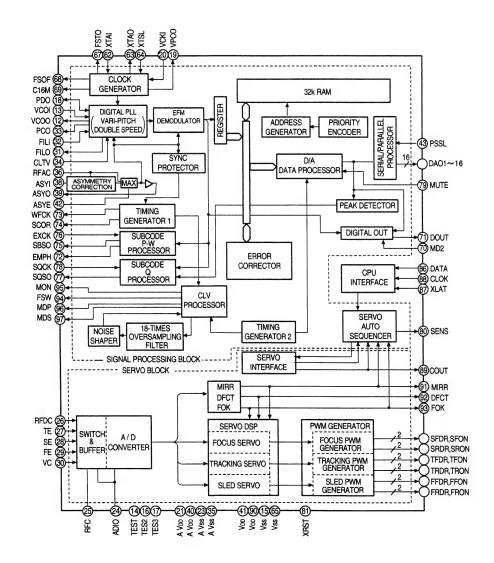
SEMICONDUCTORS

• IC's

CXD2545Q (IC103)







CXD2545Q Terminal Function

CXD2545	Q rermin	al Fur	iction
Pin No.	Symbol	1/0	Function
1	SRON	0	Sled drive output signal.
2	SRDR	0	Sled drive output signal.
3	SFON	0	Sled drive output signal.
4	TFDR	0	Tracking drive output signal.
5	TRON	0	Tracking drive output signal.
6	TRDR	0	Tracking drive output signal.
7	TFON	0	Tracking drive output signal.
8	FFDR	0	Focus drive output signal.
9	FRON	0	Focus drive output signal.
10	FRDR	0	Focus drive output signal.
11	FFON	0	Focus drive output signal.
12	VC00	0	Osc. circuit output for analog EFM PLL.
13	VCOI	1	Osc. circuit input for analog EFM PLL. fLOCK=8.6436MHz.
14	TEST		Test terminal, normally GND.
15	Vss	_	Digital GND.
16	TES2	1	Test terminal, normally GND.
1.7	TES3		Test terminal, normally GND.
18	PDO	0	Charge pump output for analog EFM PLL.
19	VPCO	0	PLL charge pump output for variable pitch.
20	VCKI		Clock input from external VCO for variable pitch. fcenter=16.9344MHz.
21	AVDD	_	Analog power supply.
22	IGEN		Op-amp current source ref. R connecting terminal for digital servo.
23	AVss	T -	Analog ground.
24	ADIO	0	A/D converter input monitor terminal.
25	RFC	1 1	Low-pas filter C connecting terminal for RFDC input.
26	RFDC	ti	RF signal input. Input range : 2.15V~5.0V (at VDD=AVDD=5.0V).
27	TE	t i	Tracking error signal input. Input range: 2.5V±1.0V (at VDD=AVDD=5.0V).
28	SE	1	Sled error signal input. Input range : 2.5V±1.0V (at VDD=AVDD=5.0V).
29	FE	l i	Focus error signal input. Input range : 2.5V±1.0V (at VDD=AVDD=5.0V).
30	VC	l i	Center point voltage input terminal.
31	FILO	0	Filter output for master PLL.
32	FILI	Ť	Filter input for master PLL.
33	PCO	0	Charge pump output for master PLL.
34	CLTV	 	VCO control voltage input for master.
35	AVss	+ :-	Analog ground.
36	RFAC		EFM signal input.
37	BIAS	+ ;	Asymmetry circuit constant current input.
38	ASYI	+ i	Asymmetry comparator voltage input.
39	ASYO	1 0	EFM full swing output (L=Vss, H=VDD).
40	AVDD	 _	Analog power supply.
41	VDD	+	Digital power supply.
42	ASYE	+ -	Asymmetry circuit ON/OFF (L=OFF, H=ON).
	PSSL	+	Mode shift input of audio data output. L to serial output, H to parallel output.
43	WDCK	6	48 bit slot D/A interface. word clock f=2Fs.
44	LRCK	0	48 bit slot D/A interface. Word clock f=Fs.
45	DA16	1 0	DA16 output when PSSL=1, 48bit slot serial data when PSSL=0.
46	DA15	10	DA15 output when PSSL=1, 48bit slot bit clock when PSSL=0.
47	DA15 DA14	0	DA14 output when PSSL=1, 44bit slot serial data when PSSL=0.
48	DA14 DA13	10	DA13 output when PSSL=1, 64bit slot bit clock when PSSL=0.
49	DA13	0	DA12 output when PSSL=1, 64bit slot LR clock when PSSL=0.
50		0	DA12 output when PSSL=1, GTOP output when PSSL=0.
51	DA11 DA10	0	DA10 output when PSSL=1, XUGF output when PSSL=0.
52		0	DA09 output when PSSL=1, XPLCK output when PSSL=0.
53	DA09	0	DA08 output when PSSL=1, At Earl output when PSSL=0.
54	DA08	0	DA07 output when PSSL=1, RFCK output when PSSL=0.
55	DA07	0	DA06 output when PSSL=1, C2PO output when PSSL=0.
56	DA06		DA05 output when PSSL=1, XRAOF output when PSSL=0. DA05 output when PSSL=1, XRAOF output when PSSL=0.
57	DA05	0	DA04 output when PSSL=1, MNT3 output when PSSL=0.
58	DA04	10	
59	DA03	10	DA03 output when PSSL=1, MNT2 output when PSSL=0.
60	DA02	10	DA02 output when PSSL=1, MNT1 output when PSSL=0.
61	DA01	<u> </u>	DA01 output when PSSL=1, MNT0 output when PSSL=0. X'tal Osc. circuit input. 16.9344MHz or 33.8688MHz.
			LYTOLOGO OFFILE INDUST IN USAGENET OF SA SPASSIFIED
62 63	XTAI	10	X'tal Osc. circuit output.

D-F100

CD PLAYER

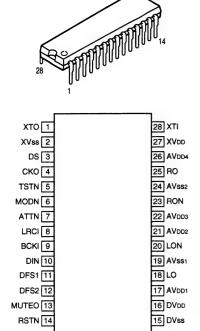
Pin No.	Symbol	1/0	Function
64	XTSL	1	X'tal select input terminal. L at X'tal is 16.9344MHz, H at X'tal is 33.8688MHz. (at normal play)
65	Vss		Digital ground.
66	FSTI		Ref. clock input terminal for digital servo block.
67	FSTO	0	2/3 cycle output of Pin 62, 63. Does not vary with variable pitch.
68	FSOF	0	1/4 cycle output of Pin 62, 63. Does not vary with variable pitch.
69	C16M	0	16.9344MHz output. Concurrently varies when variable pitched. (at normal play)
70	MD2		Digital-Out ON/OFF control terminal (L=OFF, H=ON).
71	DOUT	0	Digital-Out output terminal.
72	EMPH	0	Playback disc emphasis mode output (L=without emphasis, H=with emphasis).
73	WFCK	0	WFCK output.
74	SCOR	0	Sub code sync output terminal (H at either of sub-code sync S0 or S1 is detected).
75	SBSO	0	Sub P~W serial output.
76	EXCK	1	Clock input for SBSO read out.
77	SQSO	0	Sub Q 80 bit output. PCM peak data, level data 16-bit output.
78	SQCK	1	Clock input for SQSO read out.
79	MUTE	Ti	Mute shift terminal (mute at H).
80	SENS	O	SENS output. Emits to CPU.
81	XRST	Ť	System reset (reset at L).
82	DIRC	T i	Using at 1 track jump. (input VDD level when not use)
83	SCLK	1	Clock for SENS serial data read out.
84	DFSW	1	DFCT shift terminal (DFCT measure circuit OFF at H).
85	ATSK	T i	Anti-shock terminal.
86	DATA	T i	Serial data input from CPU.
87	XLAT	T i	Latch input from CPU.
88	CLOK	T i	Serial data transfer clock input from CPU.
89	COUT	Ö	Number of track count signal output.
90	VDD	<u> </u>	Digital power supply.
91	MIRR	0	Mirror signal output.
92	DFCT	0	Defect signal output.
93	FOK	0	Focus OK output.
94	FSW	0	Output filter shifting output of spindle motor.
95	MON	0	ON/OFF control output of spindle motor.
96	MDP	1 0	Servo control of spindle motor.
97	MDS	0	Servo control of spindle motor.
98	LOCK	0	By sampling GFS with 460Hz and when GFS at H, H output. L output at consecutively L 8 times.
99	SSTP	Ti	Terminal for disc innermost circle detection signal.
100	SFDR	Ö	Sled drive output.

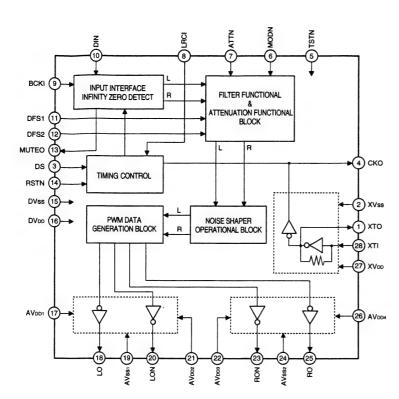
Note: • 64bit slot is LSB first 2's complementary output. 48bit slot is MSB first 2's complementary output.

- GTOP is for monitoring Frame Sync protection. (H: Sync protection window open)
 XUGF is negative pulse Frame sync gained from EFM signal. Pre-sync-protection signal.
 XPLCK is reversal of EFM PLL clock. PLL is being made to synchronize falling edge with EFM signal's changing point.
 GFS signal becomes H when the timing of Frame Sync and interleaf protection are equal.
- RFCK depends on accuracy of X'tal. It's a signal of 136 μs cycle.
- C2PO is a signal indicates data error status.
- XRAOF is a signal generated when the 32k RAM exceeds jitter margin of ±28 frames.

43

SM5871A (IC200)



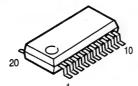


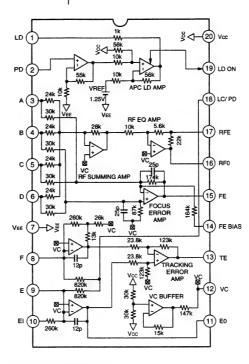
SM5871A Terminal Function

Pin No.	Symbol	i/o	Function							
1	XTO	0	Oscillator output.							
2	XVss	_	X'tal part GND (0V).							
3	DS	ip	ormal/double playback speed select (DS=L: Normal, DS=H: Double).							
4	СКО	0	Oscillator output clock (DS=L: 384fs, DS=H: 192fs).							
5	TSTN	ip	Test terminal, fixed to H level normally.							
6	MODN	ip	Mode control terminal. A SEL H L							
7	ATTN	ip	Soft mute control terminal. T H Soft mute off N L Soft mute on Soft mute on hold (fixed)							
8	LRCI	ip	Input data sample rate (fs) clock, H: Lch, L: Rch.							
9	BCKI	ip	Input data bit clock							
10	DIN	ip	Input data.							
11	DFS1	ip	De-emphasis control terminal 1. De-emphasis control terminal 1. De-emphasis control terminal 1.							
12	DFS2	ip	De-emphasis control terminal 2. S L De-emphasis on, 44.1kHz De-emphasis off 2 H De-emphasis on, 48.0kHz De-emphasis on, 32.0kHz							
13	MUTE0	0	Infinity zero detect output.							
14	RSTN	ip	System reset, H: Normal, L: Reset.							
15	DVss		Digital GND terminal (0V).							
16	DV _{DD}	T -	Digital Vpp terminal (5V).							
17	AV _{DD1}	T -	Analog VDD terminal (5V).							
18	LO	0	Lch PWM output (+).							
19	AVss1	_	Analog GND terminal 1(0V).							
20	LON	0	Lch PWM output (-)							
21	AV _{DD2}	_	Analog VDD terminal 2(5V).							
22	AVDD3	_	Analog V _{DD} terminal 3(5V).							
23	RON	0	Rch PWM output (+)							
24	AVss ₂	_	Analog GND terminal 2 (0V)							
25	RO	0	Rch PWM output (+)							
26	AV _{DD4}		Analog VDD terminal 4(5V)							
27	XVDD		X'tal part VDD terminal (5V)							
28	XTI		Oscillator input terminal (DS=L: 394fs, DS=H: 192fs)							

i: input terminal, ip: input terminal w/pull-up resister, o: output terminal

CXA1821M (IC001)





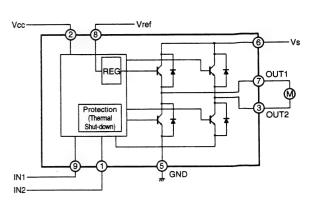
KIA7291S (IC105)



Terminal Function Description Symbol No. 1 IN2 Input terminal 2 Vcc Power for logic part 3 OUT2 Output terminal 4 NC No connection 5 GND GND 6 Vs Power for output part 7 OUT1 Output terminal

Ref. voltage terminal

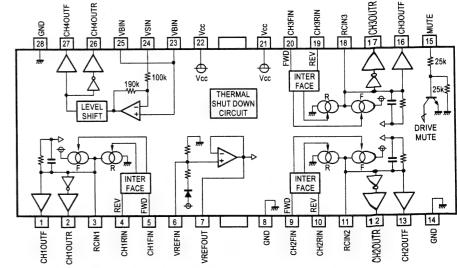
Input terminal



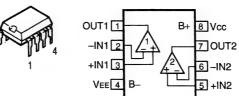
8 Vref

9 IN1

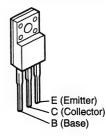


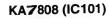


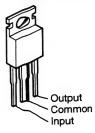
NJM4558DD (IC201, 202)



KTD2058 (IC152)





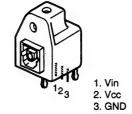


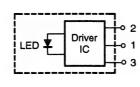
IC Protector

ICP-N15 (SF101,102)



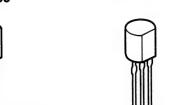
Optical Output **GP1F32T (OPTICAL)**



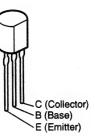


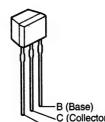
Transistors

KTA1266 KTC3198

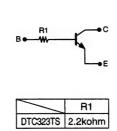


MPSA56

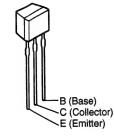




DTC323TS

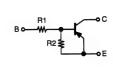


DTA114YS DTC114YS



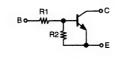
B (Base)
C (Collector)
E (Emitter)

PNP Series



	R1	R2
DTA114YS	10kohm	4.7kohm

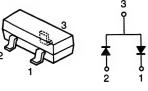
NPN Series



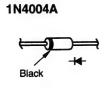
	R1	R2
DTC114YS	10kohm	4.7kohm

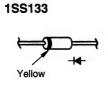
Diodes

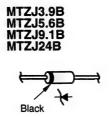
KDS226









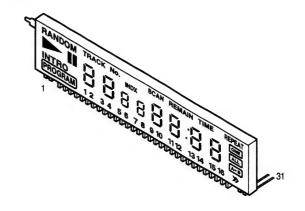


1: Cathode 1

2: Anode 2

3: Anode1/Cathode 2

•FL DISPLAY 10-BT-197GK



Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F1	F1	NP	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NC	NC	NC	NC	NC	а	b	С	d	е	f

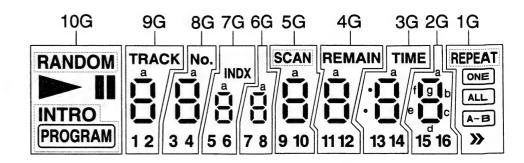
Pin No.	25	26	27	28	29	30	31
Connection	g	h	i	j	NP	F2	F2

NOTE 1) F1, F2 · · · · Filament

2) NP · · · · · No Pin

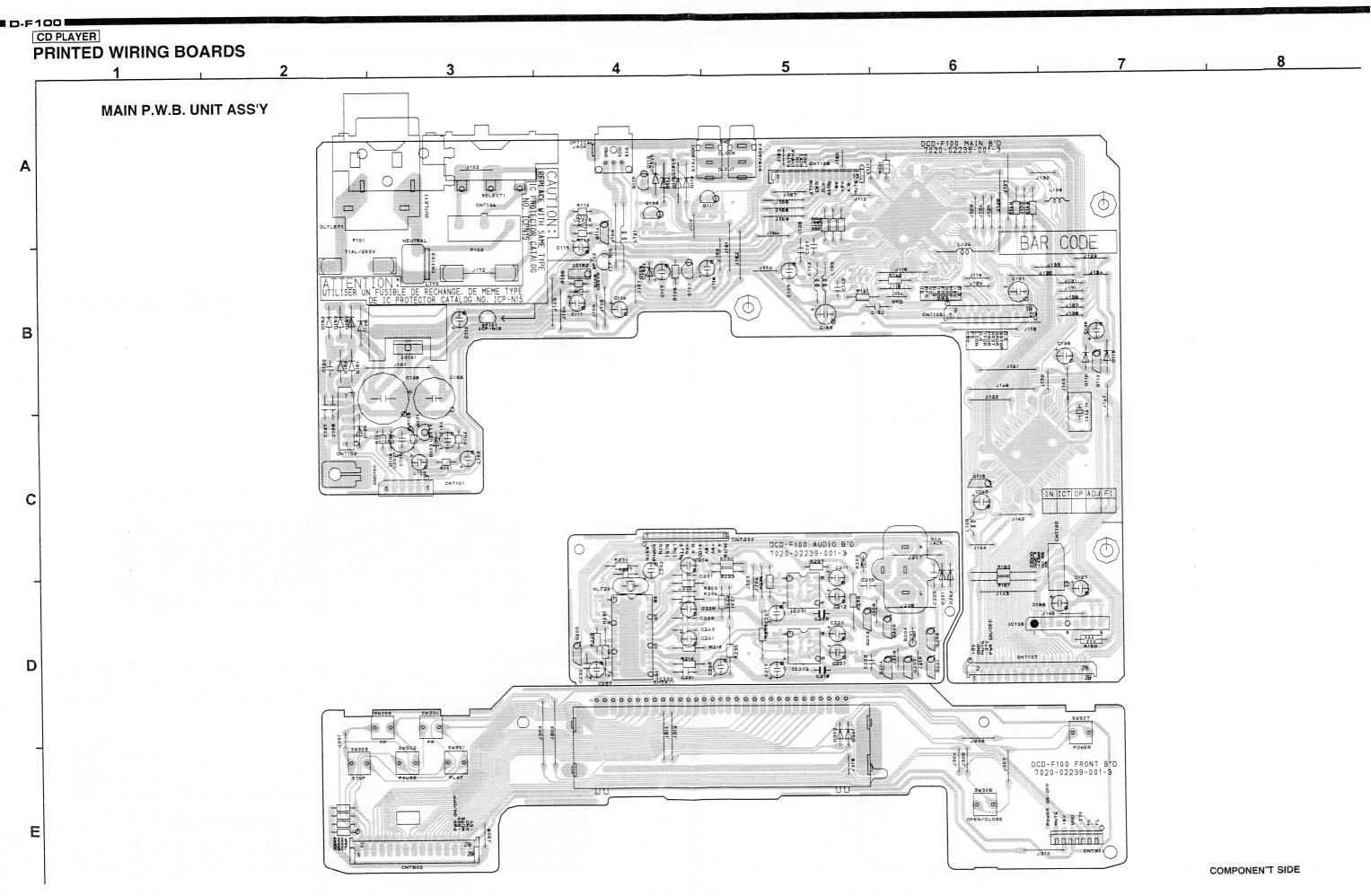
3) NC · · · · · · No Connection 4) 1G~10G · · · · Grid

Grid Partition



Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	RANDOM	а	a	а	а	a	a	а	а	_
P2	>	b	b	b	b	b	b	b	b	_
P3	11	С	С	С	С	С	С	С	С	_
P4	_	d	d	d	d	d	d	d	d	REPEAT
P5	_	е	е	е	е	е	е	е	е	ONE
P6	_	f	f	f	f	f	f	f	f	ALL
P7	_	g	g	g	g	g	g	g	g	A→
P8	_	TRACK	NO.	INDX	_	SCAN	REMAIN	TIME	_	В
P9	PROGRAM	1	3	5	7	9	11	13	15	_
P10	INTRO	2	4	6	8	10	12	14	16	>>



В

CD PLAYER

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6

FOIL SIDE

48

CD PLAYER

RF & DRIVE P.W.B. UNIT ASS'Y \$ 7020-02101-001-00 0) C029 8 6 6 C009 C020 2▲ ØX. 图品 10002 J006 9001 J011 J012 +5V 0 0 J014 J015 IC001 C001 J019 * J026 - V.C CD RESDRIVE PCB COMPONENT SIDE C003 R005 11 R002 0 0 C026 D R021 C027 RF & DRIVE PCB FOIL SIDE

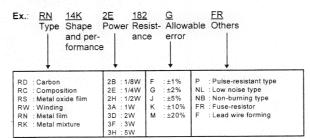
NOTE FOR PARTS LIST

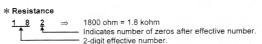
- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

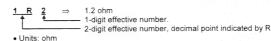
Parts marked with this symbol \triangle have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

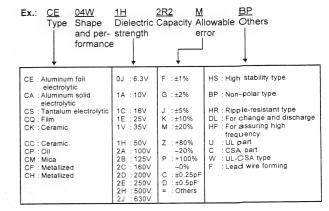
Resistors



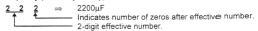




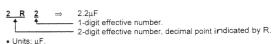
Capacitors



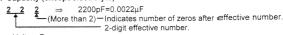
* Capacity (electrolyte only)



• Units: μF.



* Capacity (except electrolyte)



• Units: uF

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

PARTS LIST OF P.W.B. UNIT CD RF & DRIVE P.W.B. UNIT ASS'Y

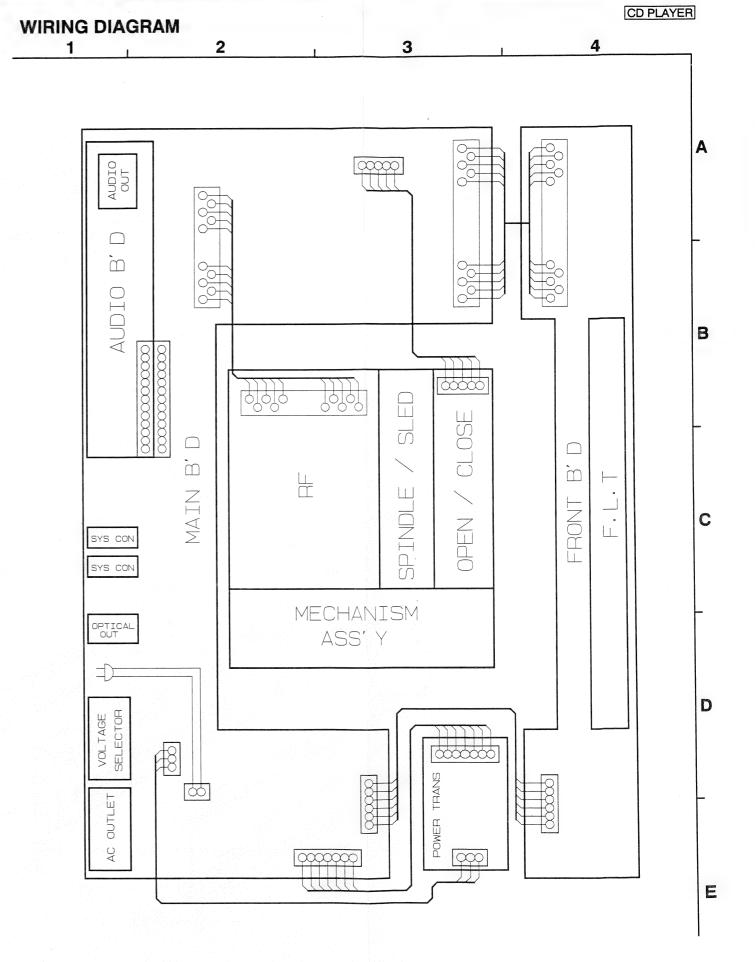
MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remark	S	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS O	ROUP			SEMICON	DUCTORS	ROUP	
IC001	S87 5207 245	IC CXA1821M	J030182100010)	IC101	960 0128 503	IC KA7808	J126780800060
IC002	263 0909 906	IC BA6392FP	J127639200010		IC103	S87 5236 978	IC CXD2545Q	J031254500010
		10 2/100211	01270000001	•	IC105	960 0129 104	IC TA7291S	J127729100000
Q001	960 0005 105	Transistor KTA1266Y	J5001266Y005	n	IC152	960 0004 902	IC KTD2058Y	J5032058Y0140
4001	300 0003 103	Table NATEO	030012001003		10132	900 0004 902	IC K1D20301	0300203010140
D001	276 0401 905	Diode 1SS133	K00001330052	0	IC200	960 0129 609	IC SM5871AP	J042587100020
					IC201,202	265 0030 004	IC NJM4558DD	J121455800020
DECICTO	RS GROUP							
R001	no GROUP	Corbon obje 47 kober 1/10/4/	C20004736020		Q101,102	960 0128 309	Transistor MPSA56Y	J5005600Y0050
R002		Carbon chip 47 kohm 1/10W			Q108	960 0005 105	Transistor KTA1266Y	J5001266Y0050
		Carbon chip 22 kohm 1/10W	C20002236020		Q110	960 0128 406	Transistor KTC 3198 BL	J5023198B0050
R003,004		Carbon chip 150 kohm 1/10W	C20001546020		Q111	960 0005 105	Transistor KTA1266Y	J5001266Y0050
R005		Carbon chip 10 kohm 1/10W	C20001036020		Q112	963 0022 006	Transistor DTC114YS	J6020114Y0050
R006		Carbon chip 22 kohm 1/10W	C20002236020		Q113	269 0072 909	Transistor DTC323TS	J602323TS0050
R007		Carbon chip 22 ohm 1/10W	C20002206020		Q114	963 0022 006	Transistor DTC114YS	J6020114Y0050
R020		Carbon chip 4.7 ohm 1/10W	C2004R706020					
R021		Carbon chip 150 kohm 1/10W	C20001546020		Q201,202	269 0078 903	Transistor DTA114YS	J6000114Y0010
R022		Carbon chip 56 kohm 1/10W	C20005636020		Q203~207	269 0072 909	Transistor DTC323TS	J602323TS0050
R023		Carbon chip 150 kohm 1/10W	C20001546020	0				
					D101	960 0014 206	Diode KDS226S	K005022600010
CAPACIT	ORS GROUP				D103	960 0128 202	Zener diode MTZJ24B	K06024R044520
2001	254 4252 037	Electrolytic 100 µF/10V	D040101082056)	D104	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C002		Ceramic chip 0.022 µF/50V	D011223777200		D105	960 0117 608	Diode 1N4004A	K040400400520
C003		Ceramic chip 15 pF/50V	D010150167200		D106,107	276 0401 905	Diode 1SS133	K000013300520
C004		Ceramic chip 0.022 µF/50V	D011223777200		D108	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C006		Ceramic chip 0.001 µF/50V	D011102777200	1	D109	960 0128 105	Zener diode MTZJ9.1B	K06009R144520
C007	254 4252 037	Electrolytic 100 μF/10V	D040101082050		D110	9L2 3480 72M	Zener diode MTZJ3.9B	K06003R944520
C008		Ceramic chip 0.022 μF/50V	D011223777200	- 1	D113	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C009,010	254 4252 037	Electrolytic 100 μF/10V	D040101082050		D114	276 0401 905	Diode 1SS133	K000013300520
C020	254 4260 029	Electrolytic 0.33 µF/50V	D040R3308711		D115	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C021	201 1200 020	Ceramic chip 27 pF/50V	D010270167200		D116	276 0401 905	Diode 1SS133	K000013300520
C022		Ceramic chip 0.1 µF/50V	D011104597200		D118,119	276 0401 905	Diode 1SS133	K000013300520
C023		Ceramic chip 27 pF/50V	D010270167200		D150~153	960 0117 608	Diode 1N4004A	K040400400520
C024		Ceramic chip 0.0015 µF/50V	D010270107200		3.00 100	330 0111 000	5.000 11(1001/1	
C025		Ceramic chip 0.0013 µF/50V	D011104597200		D201,202	276 0401 905	Diode 1SS133	K000013300520
C026		Ceramic chip 0.068 µF/50V	D0111682777200		0201,202	210 0401 000	DIOGC 100100	1100001000020
C020		Ceramic chip 0.0008 µF/50V		1	D301,302	276 0401 905	Diode 1SS133	K000013300520
C028,029	254 4252 037	Electrolytic 100 μF/10V	D011223777200		5001,002	270 0401 303	Diode 133133	100001000020
5020,029	204 4202 001	Liectionylic 100 µt /10V	D040101082050	'				<u> </u>
					-	RS GROUP		
	ARTS GROU	1		Q'ty	R101		Carbon film 6.8 kohm 1/5W	C00006826P520
CN001	960 0127 407	20P FPC connector base	L131520442010	1	R102		Carbon film 47 kohm 1/5W	C00004736P520
CN002	960 0127 300	16P FPC connector base	L130528071610	1	R103		Carbon film 3.3 kohm 1/5W	C00003326P520
CN003	960 0127 203	6P connector base	L101530150610	1	R104		Carbon film 12 kohm 1/5W	C00001236P520
					R105,106		Carbon film 470 ohm 1/5W	C00004716P520
J031,032	_	Carbon chip 0 ohm 1/10W	C200000060200	2	R112		Carbon film 5.6 kohm 1/5W	C00005626P520
					R113		Carbon film 47 kohm 1/5W	C00004736P520
L001	960 0010 307	Inductor 10 µH	D330100700520	1	R114		Carbon chip 10 kohm 1/10W	C200010360200
					R116		Carbon chip 22 kohm 1/10W	C200022360200
TP1		2P test pin	L421000050000	1	R117		Carbon chip 10 kohm 1/10W	C200010360200
					R118~120		Carbon chip 22 kohm 1/10W	C200022360200
					R121		Carbon chip 10 kohm 1/10W	C200010360200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R123,124		Carbon chip 22 kohm 1/10W	C200022360200	R306~330		Carbon film 100 kohm 1/5W	C00001046P520
R125		Carbon chip 47 kohm 1/10W	C200047360200				
R126		Carbon chip 220 ohm 1/10W	C200022160200	01010	000 000		
R127		Carbon chip 100 ohm 1/10W	C200010160200		ORS GROUP		D014404477010
R128~130		Carbon film 1 kohm 1/5W	C00001026P520	C100		Ceramic chip 0.1 µF/50V	D011104177210
R131		Carbon film 10 kohm 1/5W	C00001036P520	C102		Electrolytic 100 μF/10V	D040101082060
R132		Carbon chip 180 ohm 1/10W	C200018160200	C103,104		Electrolytic 10 μF/50V	D040100087050
R133		Carbon chip 10 kohm 1/10W	C200010360200	C105		Electrolytic 22 μF/50V	D040220087060
R134		Carbon chip 100 kohm 1/10W	C200010460200	C106,107		Ceramic 0.1 μF/50V	D005104597530
R135		Carbon chip 1 Mohm 1/10W	C200010560200	C108		Electrolytic 3300 μF/25V	D040332084020
R137		Carbon chip 10 kohm 1/10W	C200010360200	C109		Electrolytic 1000 μF/25V	D040102084030
R138,139		Carbon chip 3.3 kohm 1/10W	C200033260200	C110,111		Electrolytic 10 μF/50V	D040100087050
R140		Carbon film 15 kohm 1/5W	C00001536P520	C114		Electrolytic 100 μF/10V	D040101082060
R141		Carbon film 100 ohm 1/5W	C00001016P520	C115		Electrolytic 100 μF/25V	D040101084060
R142		Carbon chip 100 kohm 1/10W	C200010460200	C116		Electrolytic 100 μF/10V	D040101082060
R143		Carbon chip 15 kohm 1/10W	C200015360200	C117		Electrolytic 10 μF/50V	D040100087050
R144		Carbon chip 33 kohm 1/10W	C200033360200	C119		Ceramic chip 0.001 μF/50V	D011102177210
R145		Carbon chip 10 kohm 1/10W	C200010360200	C120		Film 0.068 μF/63V	D020683078060
R147		Carbon chip 1 kohm 1/10W	C200010260200	C121,122		Ceramic chip 0.001 µF/50V	D011102177210
R148,149		Carbon film 10 kohm 1/5W	C000010260260	C123		Ceramic chip 0.1 µF/50V	D011104177210
R150		Carbon chip 47 kohm 1/10W	C200047360200	C125		Electrolytic 0.1 μF/50V	D040R10087070
R153		Carbon chip 1 ohm 1/10W	C200047300200	C126		Ceramic 0.01 µF/16V	D005103773530
R154		Carbon chip 2.7 kohm 1/10W	C200001000200	C127		Film 0.68 μF/63V	D020684078060
R155		Carbon chip 4.3 kohm 1/10W	C200027260200 C200043260200	C129		Ceramic chip 0.0033 µF/50V	D011332177210
R156			C200043260200 C200047360200	C130		Ceramic chip 0.047 μF	D011473177210
R158		Carbon chip 47 kohm 1/10W	C200047360200	C131		Ceramic chip 0.1 µF/50V	D011104177210
R159		Carbon chip 47 kohm 1/10W	C200047380200 C200010460200	C132,133		Ceramic chip 470 pF/50V	D010471167200
		Carbon chip 100 kohm 1/10W Carbon film 47 kohm 1/5W	C00004736P520	C134		Ceramic chip 0.1 μF/50V	D011104177210
R160,161		Carbon min 47 Konin 1/344	C00004730F320	C135		Electrolytic 3.3 µF/50V	D0403R3087100
R201		Corbon ohin 22 ohm 1/10\M	C200022060200	C136		Electrolytic 1 µF/50V	D040010087050
R202		Carbon chip 22 ohm 1/10W Carbon chip 180 ohm 1/10W	C200022000200	C137,138		Electrolytic 100 µF/10V	D040101082060
		•		C137,138		Electrolytic 100 μF/10V	D040101082060
R203,204		Carbon film 10 kohm 1/5W	C00001036P520 C200068260200	C139		Ceramic chip 0.1 µF/50V	D011104177210
R205,206		Carbon chip 6.8 kohm 1/10W	C200068260200	C140		Electrolytic 100 fμF/10V	D040101082060
R207		Carbon chip 22 kohm 1/10W	C200022360200	C140		Electrolytic 100 μF/10V	D040101082060
R208 R209~211		Carbon chip 24 kohm 1/10W Carbon chip 6.8 kohm 1/10W	C200024360200 C200068260200	C141		Ceramic chip 0.1 µF/50V	D011104177210
				C142		Film 0.0015 fμF/100V	D02015206C060
R212		Carbon chip 100 kohm 1/10W	C200010460200 C200068160200	C143		Ceramic chip 100 pF/50V	D010101167200
R213 R214		Carbon chip 680 ohm 1/10W	C200066160200 C200010160200	C144		Ceramic chip 0.1 μF/50V	D011104177210
		Carbon chip 100 ohm 1/10W		C146		Ceramic chip 0.1 µF/50V	D011104177210
R215,216		Carbon film 10 kohm 1/5W Carbon chip 6.8 kohm 1/10W	C00001036P520	C147		Ceramic chip 100 pF/50V	D010101167200
R217,218			C200068260200	C148		Ceramic 0.1 μF/50V	D005104597530
R219		Carbon chip 24 kohm 1/10W	C200024360200	C150,151		Electrolytic 220 μF/10V	D040221082050
R220		Carbon chip 22 kohm 1/10W	C200022360200	C152		Ceramic 100 pF/50V	D005101177520
R221~223		Carbon chip 6.8 kohm 1/10W	C200068260200	C153,154		Ceramic chip 100 pF/50V	D010101167200
R224		Carbon chip 680 ohm 1/10W	C200068160200				
R225		Carbon chip 100 kohm 1/10W	C200010460200	C201		Ceramic 0.047 μF/50V	D005473597520
R226		Carbon chip 100 ohm 1/10W	C200010160200	C202		Electrolytic 47 μF/16V	D040470083100
R227		Carbon chip 1 Mohm 1/10W	C200010560200	C204		Electrolytic 47 μF/16V	D040470083100
R228		Carbon film 47 kohm 1/5W	C00004736P520	C205		Ceramic chip 220 pF/50V	D010221167200
R230~239		Carbon film 47 ohm 1/5W	C00004706P520	C206		Ceramic chip 100 pF/50V	D010101167200
R301~304		Codes Str. 47 Let 4 lets	0000047005500	C207		Electrolytic 22 µF/16V	D040220083070
		Carbon film 47 kohm 1/5W	C00004736P520	C208		Ceramic chip 100 pF/50V	D010101167200

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	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q't
C209		Film 0.0022 μF/100V	D02022206C060	RCA1	960 0129 502	2P pin jack	G601201150030	1
C210		Ceramic chip 220 pF/50V	D010221167200					
C211		Electrolytic 22 µF/16V	D040220083070	SF101,102	268 0073 002	IC ICP-N15	J120001500030	2
C212		Electrolytic 10 µF/50V	D040100087050			-		
C213		Film 0.0022 μF/100V	D02022206C060	SW301-307	960 0069 206	Tact switch	G180215050010	7
C214		Ceramic chip 220 pF/50V	D010221167200					
C215,216		Ceramic chip 100 pF/50V	D010101167200	SYSJACK1,2	960 0004 407	Mini jack	G401031102010	2
C217		Electrolytic 22 µF/16V	D040220083070					
C218		Film 0.0022 µF/100V	D02022206C060	XLT101	399 0107 900	Ceramic 4.19MHz	E830419000060	1
C219		Ceramic chip 220 pF/50V	D010221167200	XLT201	960 0129 405	Crystal 16.9344 MHz	E800169344460	1
C220		Electrolytic 22 μF/16V	D040220083070					
C221		Electrolytic 10 μF/50V	D040100087050		960 0127 708	Heat sink	2120044298010	1
C222		Film 0.0022 μF/100V	D02022206C060		960 0127 805	Earth plate	4470200016010	1
C223,224		Ceramic chip 27 pF/50V	D010270167200		960 0005 804	Fuse holder	G645000050010.	2
C225		Ceramic 0.1 µF/50V	D005104597530		4.4		for F101	
C226		Ceramic chip 27 pF/50V	D010270167200		960 0005 804	Fuse holder	G645000050010.	2
C227		Ceramic 0.047 µF/50V	D005473597520				for F102	-
C228		Electrolytic 47 µF/16V	D040470083100	11			Asia Model only	
C229		Ceramic 0.047 µF/50V	D005473597520		960 0143 300	FL supporter	4070210006000	1
C231,232		Ceramic 0.047 μF/50V	D005473597520		960 0083 606	FLD (10-BT-197GK)	K530000210010	1
C236,237		Electrolytic 47 μF/16V	D040470083100		963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B10	1
C240		Ceramic 0.047 µF/50V	D005473597520	11	000 0010 001	000000000000000000000000000000000000000	202000001210	
C240		Electrolytic 47 μF/16V	D040470083100		-			
OLTI		Libertolytto 17 pt 710 v	201011.00001.00					
								1
OTHER P	ARTS GROU	P		Q'ty	E di			
L 1SELECT1	963 0027 700	Slide switch	G060040550010	1		1000		-
								1
			Asia Model only					
			Asia Model only					
CNT101	960 0128 804	6P connector base	Asia Model only L102526700600	1				
CNT101 CNT102	960 0128 804 960 0118 704	6P connector base 7P connector base		1 1				
3.0			L102526700600					
CNT102	960 0118 704	7P connector base	L102526700600 L102526700700					
CNT102 CNT103	960 0118 704 960 0118 908	7P connector base 2P connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000					
CNT102 CNT103 CNT104	960 0118 704 960 0118 908 960 0128 901 960 0129 007	7P connector base 2P connector base 13P connector base	L102526700600 L102526700700 L108039602010 L104353280300	1 1 1				
CNT102 CNT103 CNT104 CNT105	960 0118 704 960 0118 908 960 0128 901 960 0129 007	7P connector base 2P connector base 13P connector base 20P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000	1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500	1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900	1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0128 600	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310	1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0128 600 960 0129 706	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310	1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0128 600 960 0129 706 960 0129 900	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100	1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0128 600 960 0129 706 960 0129 900	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100	1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0129 600 960 0129 706 960 0129 900 960 0129 803	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0129 706 960 0129 900 960 0129 803	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0129 706 960 0129 900 960 0129 803	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 G650102251160	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0128 707 960 0129 201 960 0129 706 960 0129 900 960 0129 803	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 G650102251160	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT301 CNT302 A F101 A F102	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0129 201 960 0129 201 960 0129 706 960 0129 900 960 0129 803 960 0142 709 960 0142 709	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base Fuse 250V 1A Fuse 250V 1A	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 Asia Model only	1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT301 CNT302 A F101 A F102	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0129 201 960 0129 201 960 0129 706 960 0129 900 960 0129 803 960 0142 709 960 0142 709	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base Fuse 250V 1A Fuse 250V 1A	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 Asia Model only	1 1 1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302 A F101 A F102 GND100	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0129 201 960 0129 706 960 0129 706 960 0129 803 960 0142 709 960 9006 600	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base Fuse 250V 1A Fuse 250V 1A GND terminal	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 G650102251160 Asia Model only	1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302 A F101 A F102 GND100	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0129 201 960 0129 706 960 0129 706 960 0129 803 960 0142 709 960 9006 600	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 29P FPC connector base 13P connector base 13P connector base 7P flat cable 29P FPC connector base Fuse 250V 1A Fuse 250V 1A GND terminal	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 G650102251160 Asia Model only	1 1 1 1 1 1 1 1 1 1				
CNT102 CNT103 CNT104 CNT105 CNT106 CNT107 CNT108 CNT200 CNT301 CNT302 A F101 A F102 GND100 L101-106	960 0118 704 960 0118 908 960 0128 901 960 0129 007 960 0129 201 960 0129 706 960 0129 706 960 0129 803 960 0142 709 960 0142 709 960 9006 600 960 0128 008	7P connector base 2P connector base 13P connector base 20P FPC connector base 5P connector base 13P connector base 7P flat cable 29P FPC connector base Fuse 250V 1A GND terminal Inductor 100 μH	L102526700600 L102526700700 L108039602010 L104353280300 L131837002000 L102526700500 L131837002900 L101353361310 L101352371310 L352106183100 L131837002910 G650102251160 G650102251160 Asia Model only 3790040876010	1 1 1 1 1 1 1 1 1 1 1 1				

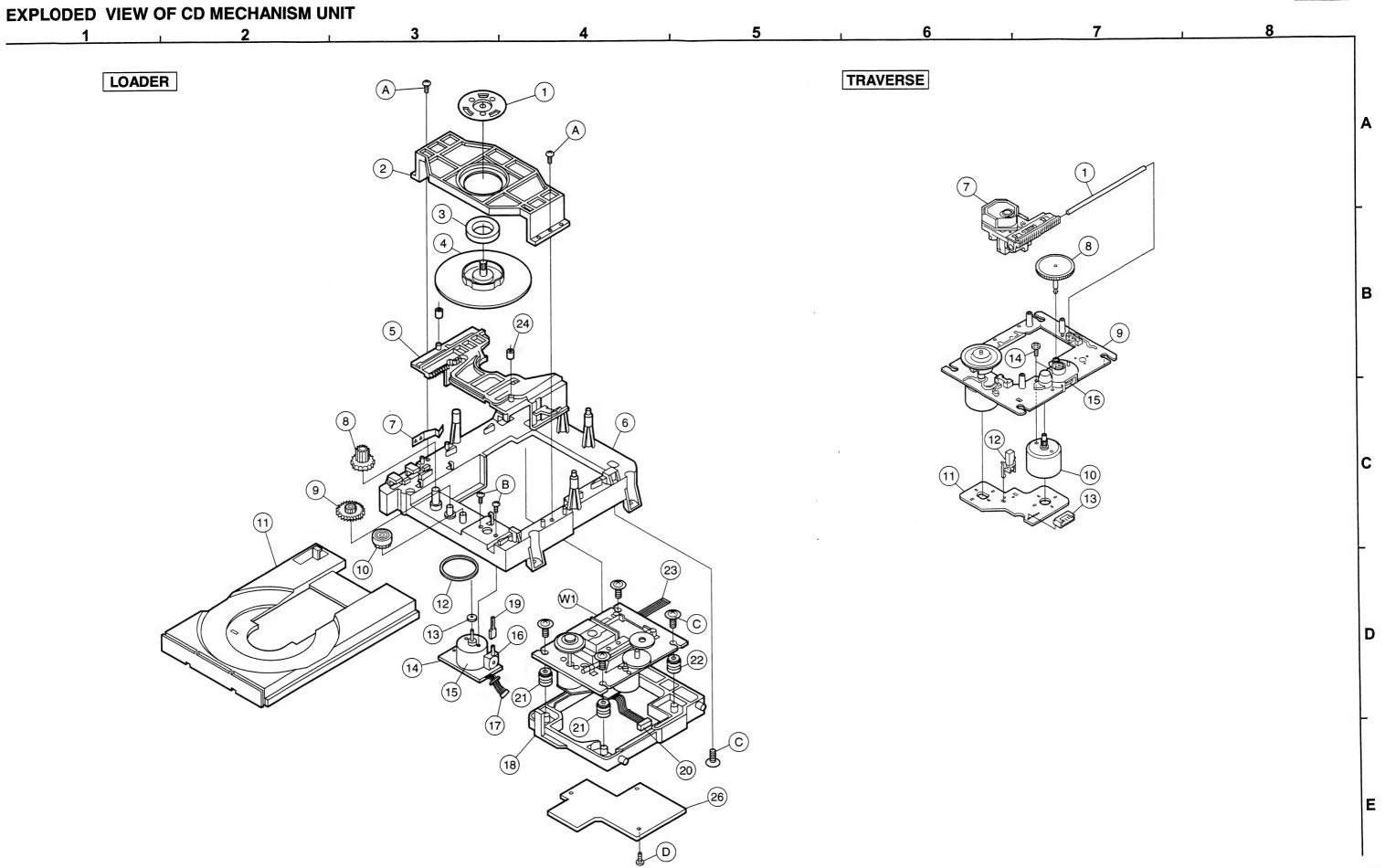


PARTS LIST OF EXPLODED VIEW

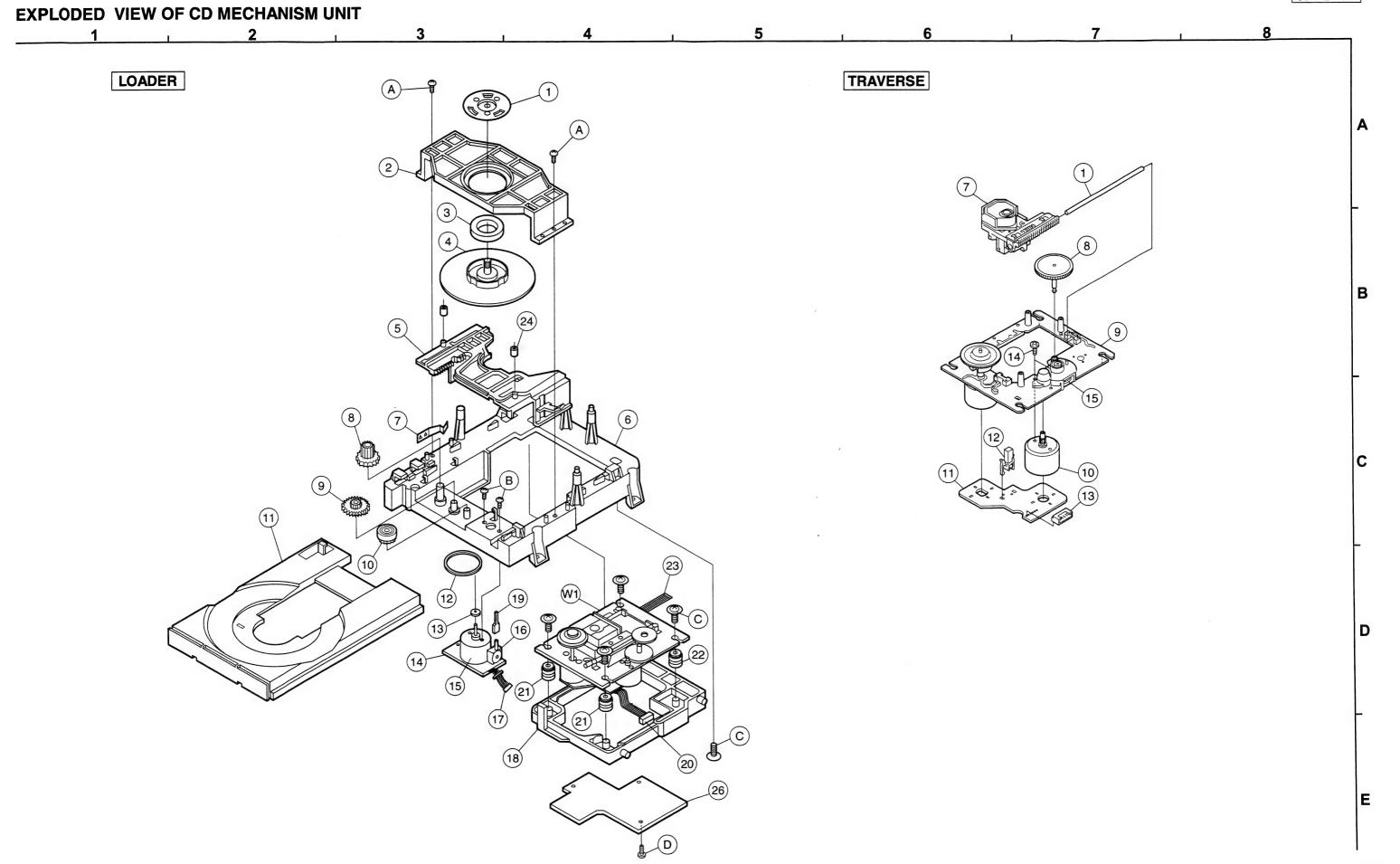
Ref. No.	Part No.	Part Name	Remarks	Q'ty
	960 0138 027	Main P.W.B. unit ass'y	7025HD9805010	1
300 0100 02		man r .vv.b. and acc y	Europe & U.K. Models	·
960 0138 01		Main P.W.B. unit ass'y	7025HD9805040	1
	900 0130 014	IVIAITI F. VV.D. UTIIL ass y	Asia Model	'
		Frank D.W.D. unit	Asia Wodel	
6		Front P.W.B. unit		
11		Main P.W.B. unit		
└─ 12 18-1	960 0127 009	Audio P.W.B. unit CD RF & drive P.W.B. unit ass'y	7025HD9805011	1
10-1	960 0127 009	OD HE & UNIVE F.W.D. UNII dos y	70231109603011	1
1	960 0115 707	DENON badge	5630210008000	1
2	960 0126 000	Front panel	3067210038010	1
3	960 0126 505	Display window	5077210043020	1
4	960 0126 107		3217210011010	1
7	960 0003 505	Foot cushion	4050020075010	4
8	960 0003 408		4007000061010	2
9	960 0126 301	Main chassis	3200210066000	1
10	960 0115 008	Foot	4000210001000	2
10	960 0113 006	Foot	4000210001000	-
13	960 0135 305	Cord stopper	4380040162010	1
∆ 14	960 0032 301		L061000410010	1
15	960 0126 220	Back chassis	3207210026010	1
10	000 0120 220	Buok ondooro	Europe & U.K. Models	
15	960 0126 217	Back chassis	3207210026110	1
15	960 0126 217	Dack Chassis	Asia Model	1
		- :		1
<u>A</u> 17	960 0136 304	Power trans.	8200480004010	1
			Europe & U.K. Models	
∆ 17	960 0136 401	Power trans.	8200480004040	1
		00	Asia Model	
18	960 0130 203		8038000900081	1
19	960 0136 508		4010210036000	1
20	960 0126 408	,	4317210001010	1
04	960 0121 005	Top cover	3000210006100	1
21	000 0121 000	ł .		1
21	960 0003 301	P.W.B. support	4070001601010	1
		1 ''	5527067010010	1
22	960 0003 301	Caution label		
22 * 23	960 0003 301 960 0126 709	Caution label	5527067010010	1
22 ★ 23 ★ 24	960 0003 301 960 0126 709 960 0127 504	Caution label 20P FPC	5527067010010 L301161200010	1
22 ★ 23 ★ 24	960 0003 301 960 0126 709 960 0127 504	Caution label 20P FPC	5527067010010 L301161200010	1
22 ★ 23 ★ 24	960 0003 301 960 0126 709 960 0127 504	Caution label 20P FPC	5527067010010 L301161200010	1
22 ★ 23 ★ 24	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC	5527067010010 L301161200010	1
22 ★ 23 ★ 24 ★ 25	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC	5527067010010 L301161200010	1
22 * 23 * 24 * 25	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B	5527067010010 L301161200010 L301111290010	1 1 1
22 * 23 * 24 * 25 * SCREWS	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B	5527067010010 L301161200010 L301111290010	1 1 1
22 * 23 * 24 * 25 * SCREWS	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10,	1 1 1
22 * 23 * 24 * 25 * SCREWS	960 0003 301 960 0126 709 960 0127 504 960 0130 106	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1	1 1 1
22 ★ 23 ★ 24 ★ 25 SCREWS	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only	1 1 1 1 1 1 2
22 ★ 23 ★ 24 ★ 25 SCREWS A A	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 960 9008 006	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10	16 2 2
22 * 23 * 24 * 25 * 26 * 27 * 28 * 28 * 29 * 29 * 29 * 20	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 963 0018 104 960 9003 001	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z Screw 4×8 CBTS(S)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10 B020030171B10 B020740081B10	16 2
22 * 23 * 24 * 25 * 26 * 27 * 28 * 28 * 29 * 29 * 29 * 20	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 960 9008 006 963 0018 104	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z Screw 4×8 CBTS(S)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10 B020030171B10	16 2 2 1 2
22 * 23 * 24 * 25 * 26 * 27 * 28 * 28 * 29 * 29 * 29 * 20	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 963 0018 104 960 9003 001	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z Screw 4×8 CBTS(S)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10 B020030171B10 B020740081B10	16 2 2 1 2
22 * 23 * 24 * 25 * 26 * 27 * 28 * 28 * 29 * 29 * 29 * 20	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 963 0018 104 960 9003 001	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z Screw 4×8 CBTS(S)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10 B020030171B10 B020740081B10	16 2 2 1 2
22 * 23 * 24 * 25 * 26 * 27 * 28 * 28 * 29 * 29 * 29 * 20	960 0003 301 960 0126 709 960 0127 504 960 0130 106 963 0108 604 963 0108 604 963 0018 104 960 9003 001	Caution label 20P FPC 29P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z Screw 4×8 CBTS(S)-Z	5527067010010 L301161200010 L301111290010 B020030083B10 B020030083B10, for 1SELECT1 Asia Model only B020030083F10 B020030171B10 B020740081B10	16 2 2 1 2

PARTS LIST OF CD MECHANISM UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER	MECHA. SE	CTION (CD-780MS II)		
	960 0046 902	· · · · · · · · · · · · · · · · · · ·	447000406000	1
1		Clamper plate		
2	960 0046 106		270000036000	
3	960 0047 202	• ' '	7600GZ3400L1	1
4	960 0163 306		433002004101	1
5	960 0059 504		435002014201	
6	960 0059 407		340002002101	1
7	960 0046 407		372000336000	1
8	960 0045 806		247000058000	1
9	960 0045 602	~	274000045000	1
10	960 0045 709		247000046000	1
11	960 0163 403		460002001102	1
12	960 0045 903		249000021000	1
13	960 0046 009		250000008000	1
14	960 0047 105	Motor P.W.B. ass'y	702001087000	1
15	960 0045 408	DC motor	G70000016001	1
16	960 0041 703	Leaf switch	G22000001000	1
17	960 0163 500	5P wire	L000231050010	1
18	960 0163 607	Feed frame	321002010101	1
19	960 0163 704	Switch holder	432000214000	1
20	960 0163 801	6P wire	L00017106280	1
21	960 0163 908	Insulator (green)	124002013501	2
22	960 0164 004		124002013502	2
23	960 0164 101	` ′	L30114116001	1
24	960 0046 805		438000059000	2
26	960 0173 008		7028021010020	1
20	300 0173 000	OD THE & GITYOT , TY.D. WHILE	7020021010020	'
A	960 9000 318	Screw 3 × 10	B020HF6103B1	2
В	960 0164 208		B000HD3051B6	2
C	960 9000 321		1500HZ0780L1	5
D	960 9000 130		B020HF6083B1	3
D	900 9000 130	Sciew 5 x 6	D020111 0003D1	"
W1	9G9 0438 004	Feed mecha. ass'y (KSM-213CCM)	8030040622010	1
TRAVER	SE SECTION	KSM-213CCM)		
	S26 2690 801	T		1
1				1
7	1	Optical Pick up (KSS-213C)		1
8	S26 2690 701	, ,		1
9	1	T/T motor chassis ass'y		1
10		Gear motor ass'y		1
11	1	P.W.B. ass'y		1
12	S15 7208 511	Leaf Switch		1
13	S15 6472 211	6P Connector pin		1
14	S76 2125 510	Screw 2 × 3 + P		2



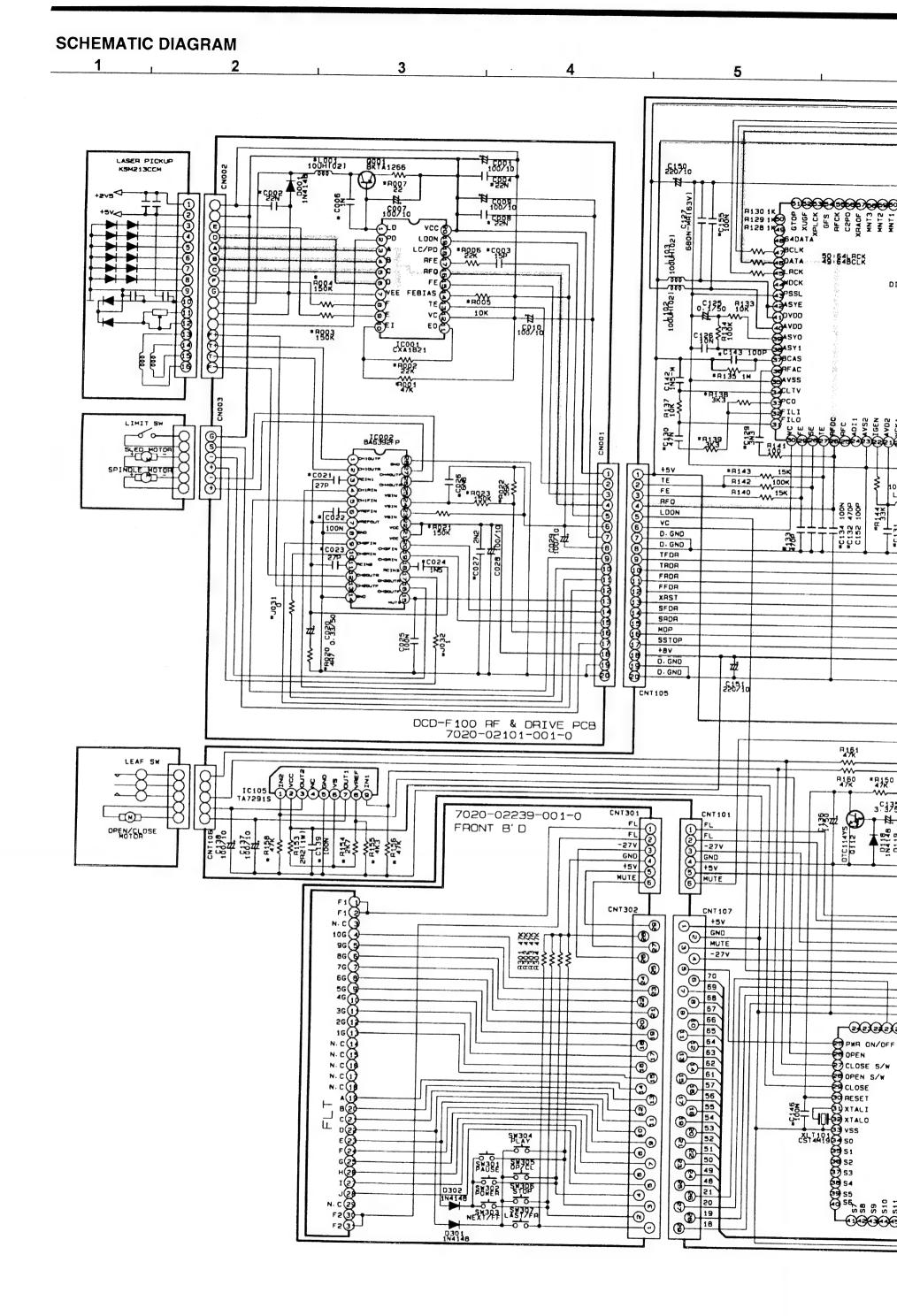


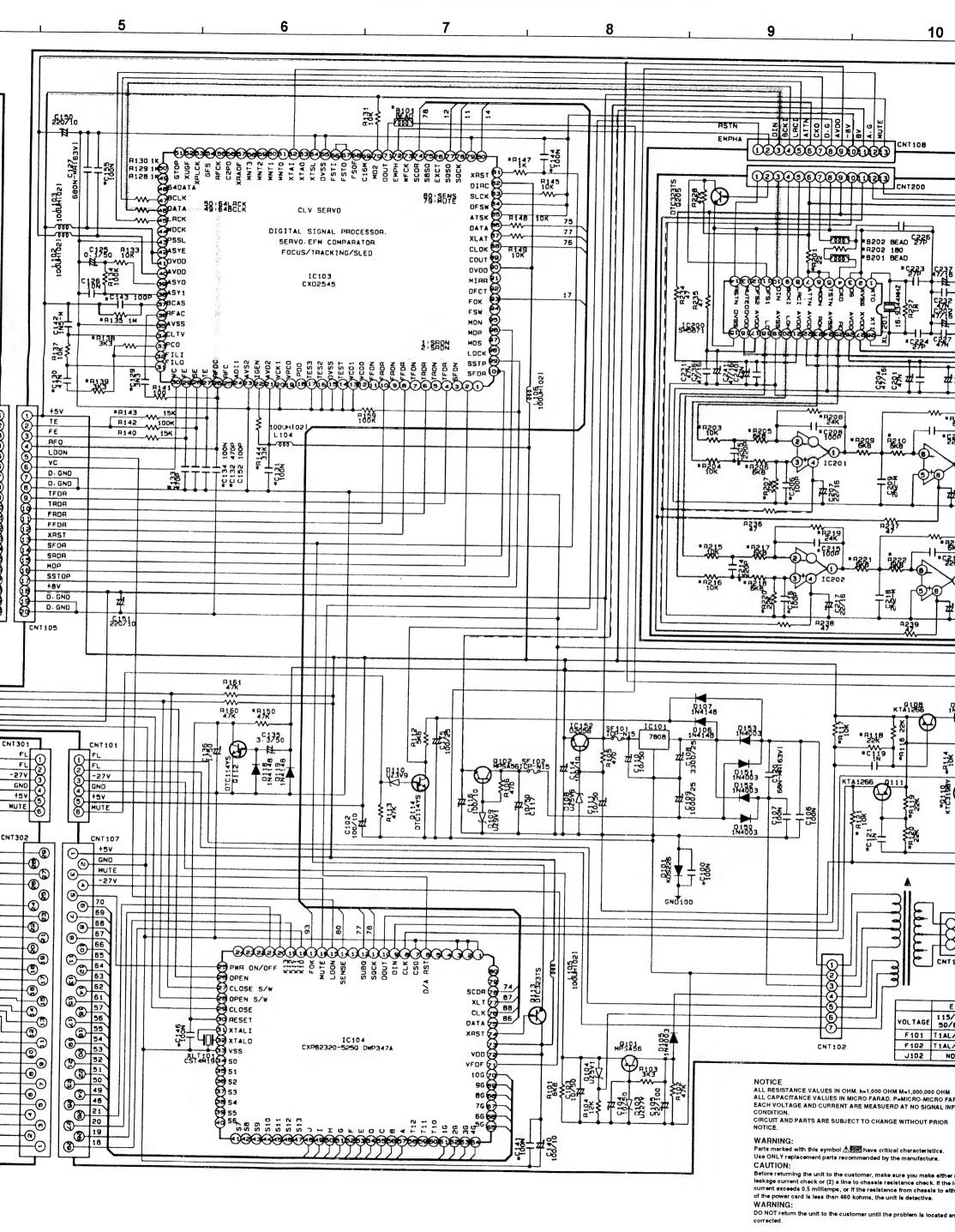


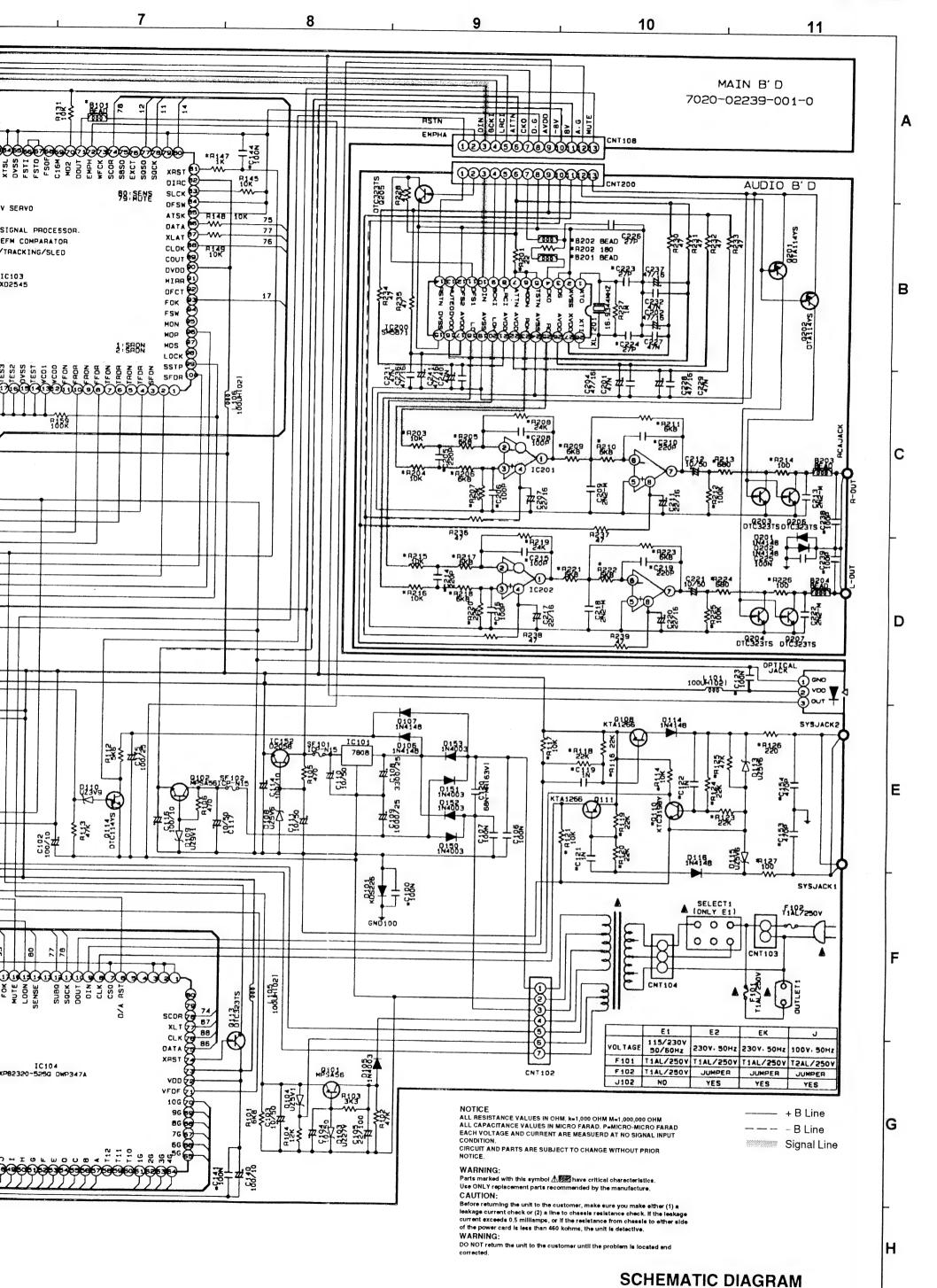
D-F100

CD PLAYER

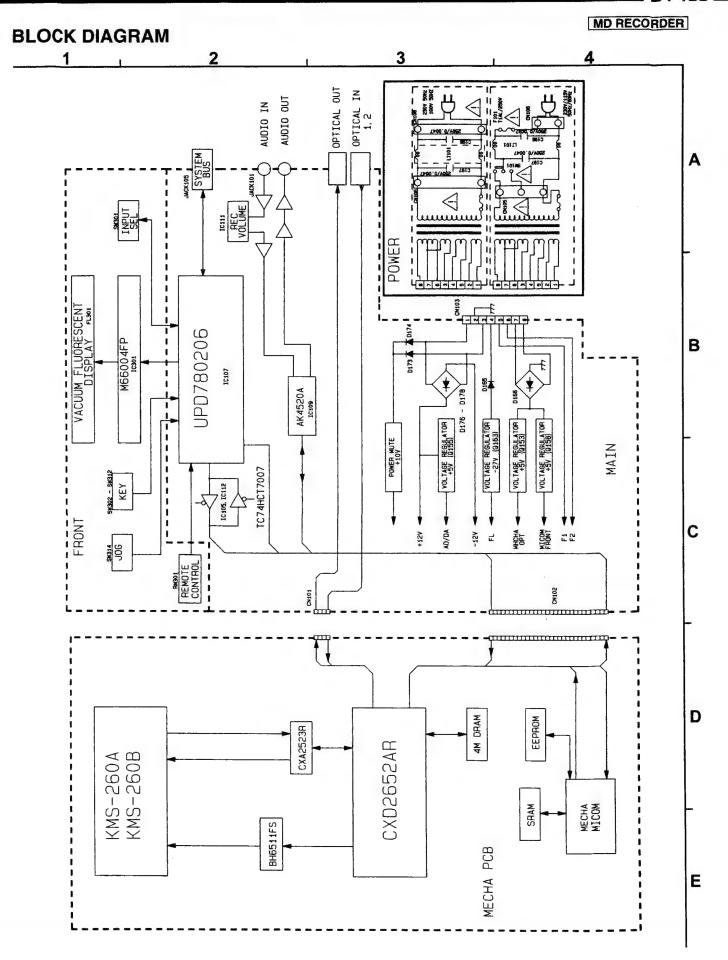
MEMO:







MAIN P.W.B. UNIT

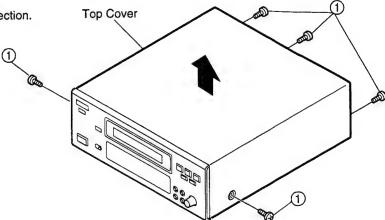


DISASSEMBLY

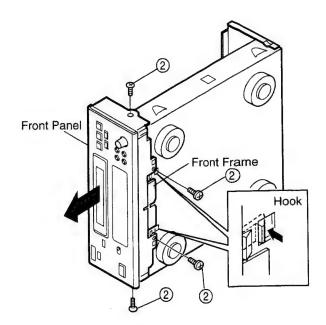
(Follow the procedure below in reverse order when reassembling)

1. Top Cover & Front Panel

- (1) Remove 5 screws 1 fixing the Top Cover.
- (2) Detach the Top Cover as shown in the arrow direction.



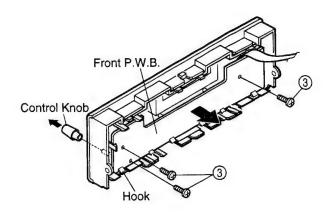
- (3) Remove 4 screws 2 on the bottom and both sides.
- (4) Disconnect 19P FPC from its connector base.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

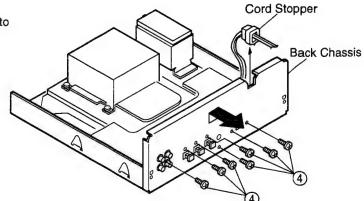
Front P.W.B.

- (1) Pull out the Control Knob to the arrow direction, and remove 3 screws (3).
- (2) Detach the Front P.W.B. with releasing 4 Hooks.



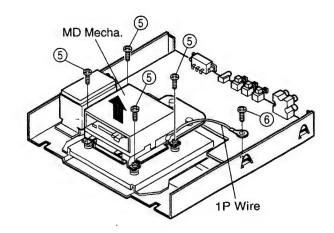
3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 7 screws (4), and detach the Back Chassis to the arrow direction.



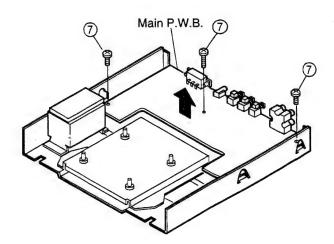
4. MD Mecha.

- (1) Remove 4 screws (5) fixing the MD Mecha.
- (2) Remove 1 screw (6) and 1P wire.
- (3) Disconnect 24P FPC and 4P Connector Cord from their connector bases.
- (4) Detach the MD Mecha. to the arrow direction.



Main P.W.B.

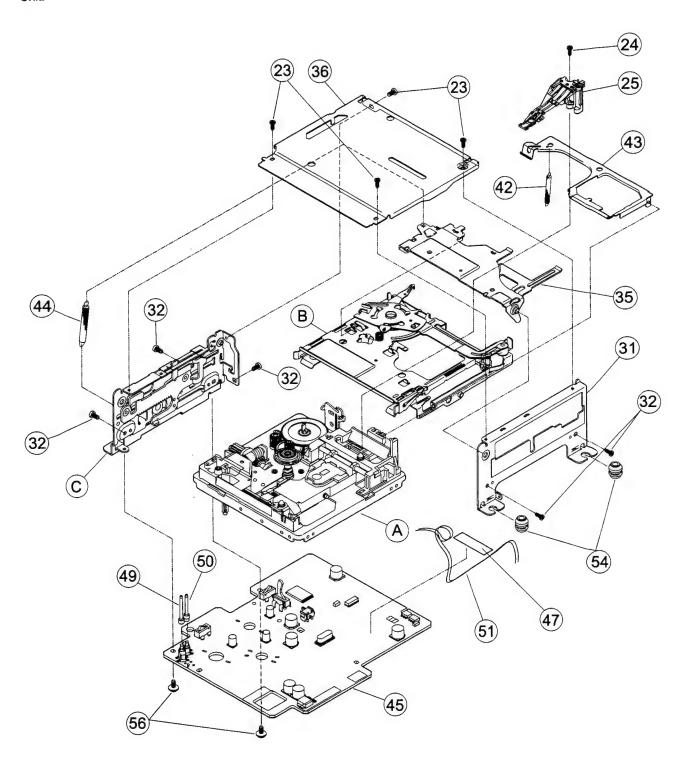
(5) Remove 3 screws (7), and detach the Main P.W.B. to the arrow direction.



DISASSEMBLY OF MD MECHA.

Main Block Disassembly/Reassembly

The MD Mecha. can be separated into Base Mechanism, Mode Switching Mechanism, Disc Loading Mechanism, and Control Unit.



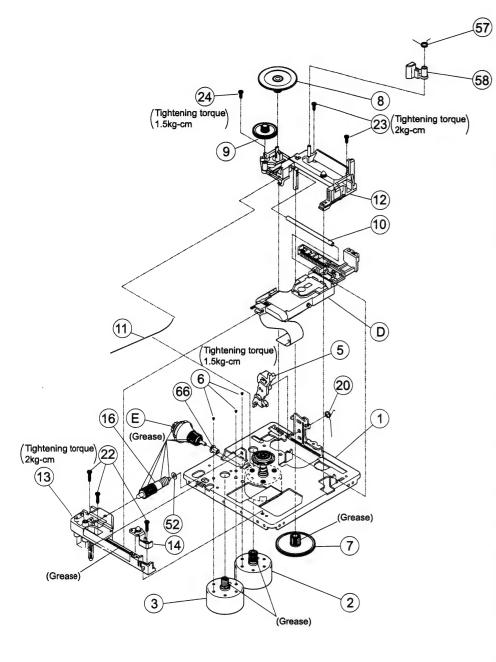
	T		IND RECORDER
No.	Disassembling Parts	Disassembling Step	Caution
	(§) Control Unit	(1) Peel off the Tape @ for fixing O/W HD Lead Wire.	Don't misplace the SW Knob (L) with (S) when reassembling.
	49 SW Knob (L)	(2) Disconnect the O/W HD Lead Wire ⑤ from the Control Unit ⑥.	FRONT GUAID BLK (3) \ CHASSIS
	⊚ SW Knob (S)	(3) Remove solder from 6 motor terminals.	CHASSIS ()
		(4) Short-circuit the short land of the P/U FFC 48 with solder.	
		(5) Disconnect the P/U FFC 48 from the Control Unit 45.	
		(6) Detach the Control Unit 45 by removing 2 screws 56.	SW KNOB
		(7) Remove the SW knob (L) 49 and (S) 50.	The head should not protrude. * The SW Knob head protrudes
			than boss face of the Front Guide BLK if misplaced.
	③ Top Plate	(1) Detach the Top Plate 36 by removing 4 screws 23.	Apply screw-lock on the tip of the screw after assembling the O/W HD.
	® O∕W HD	(2) Detach the O/W HD ® by removing screw ®.	• Coil the Lead Wire around the Sled Base ① by 1-turn after assembling the O/W HD. Also, twist the Lead Wire more than 2-turn.
	Holder A/SPG	(3) Remove Holder A/SPG (4).	
	③ Side BLK (R)	(4) Detach the Side BLK (R) ③ by removing 2 screws ③.	Hooking direction should be inside.
		(5) Remove 2 Insulators ⁽³⁾ .	
	B Disc Loading Mechanism	(6) Remove the Holder Aem ③.	
	® Holder Arm	(7) Detach the Disc Loading Mechanism ®.	
			When assembling the Holder A/SPG (4), its hooking direction should be as follows.
		·	
			O/W HD LEAD WIRE
			SLED BASE
	© Mode Switching Mechanism	(1) Remove the Lifter SPG @.	Be careful not to deform the HD Lifter.
	Lifter SPG	(2) Detach the Mode Switching Mechanism © by removing 3 screws 3.	
	HD Lifter	(3) Remove the HD Lifter 43.	
	and his		Corous looks, TR1401B ThrooPond

Assembly

- Follow the procedure in reverse order when reassembling.
- For screw tightening torque and grease/screw-lock apply positions, see Fig. Be careful not to strip the screws when tightening.
- Pay attention to the indication in Caution when reassembling.
- Take necessary anti-static measures when disassembling/reassembling.

Screw-lock: TB1401B ThreeBond
Grease: MOLYKOTE YM-103 DOW CORNING

Base Mechanism Disassembly/Reassembly
 The Base Mechanism can be separated into Spindle MTR Ass'y, Sled MTR Ass'y, and P/U Ass'y



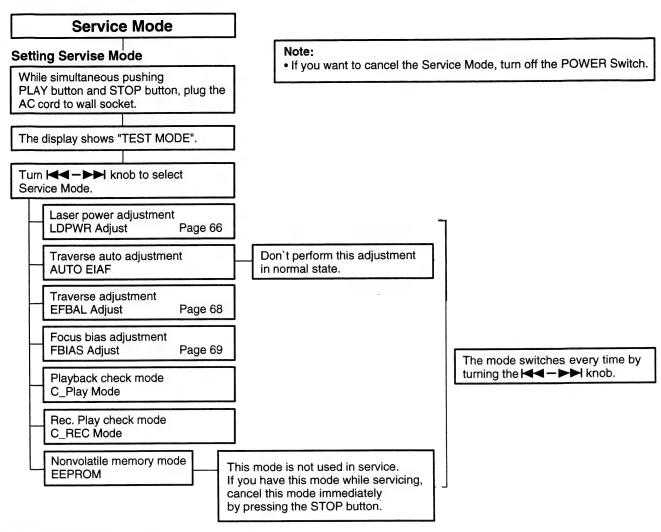
٨	SS	_	_	h	ı,
~	55	е	111	I)	IV

- Follow the procedure in reverse order when reassembling.
- For screw tightening torque and grease/screw-lock apply positions, see Fig. Be careful not to strip the screws when tightening.
- Pay attention to the indication in Caution when reassembling.
- Take necessary anti-static measures when disassembling/reassembling.

8 2nd Gear 9 1st Gear 7 Sled Pinion	(1) Remove the Holder Stopper 58, SPG 59.	_
Rear Guide Shaaft P/U	 (2) Remove the 2nd Gear ®. (3) Remove the 1st Gear ⑨. (4) Remove the Sled Pinion ⑦. (5) Detach the Rear Guide BLK ⑫ by 	Remove the 2nd Gear ® with pressing the hook in the A direction. 2nd Gear A Hook
① Spindle Stabilizer ② P/U Ass'y ③ Front Guide ④ Locator ⑧ 2nd Worm ⑥ LDG Pinion	removing 2 screws ② and 1 screws ④. (6) Remove the Shaft P/U ⑩, Spindle Stabilizer ⑪. (7) Remove the P/U Ass'y ①. (8) Detach the Front Guide ③ and Locator ④ by removing 3 screws ②. (9) Remove 2nd Worm ⑥, Washer ⑤, then LDG Clutch Ass'y ⑥ and Bush ⑥.	• Remove the Sled Pinion ① with pressing the hook in the B direction. Rear Guide BLK Rear Guide BLK Sled Pinion B
② Sled MTR Ass'y ③ LDG MTR Ass'y ② SW Lever SPG ⑤ SW Lever	(10) Remove the Sled MTR Ass'y ②, LDG MTR Ass'y ③. (11) Remove the SW Lever SPG ⑩. (12) Remove the SW Lever ⑤.	When disassembling/reassembling the Sled or LDG MTR Ass'y with Chassis, be careful not to make any scratch to the gear combined. Spindle Table No.® should be within the range of diameter-a of the recess mark # after assembling. When reassembling the Sled and LDG MTR Ass'y, pay attention to their terminal polarities. (\$\phi\$ 1.0 hole should be positioned as follows.) Sled MTR Ass'y Disc insert direction

Screw-lock: TB1401B ThreeBond Crease: MOLYKOTE YM-103 DOW CORNING

CONFIRMING THE SERVO



Kev Functions

,	
Key name	Function
Hdd-▶► Knob	Settlement of Parameter, Mode.
ENTER	Proceed forward. Settled. (Push I◀◀一▶►)
STOP	Back to previous. Cancelled.
PLAY	Ejecting a disk.

Note

• In Service Mode, the function of the erase protection knob is not detected. If you press REC key, in Traverse mode or Continuous recording mode, your recorded disk may be erased. Pay attention to your disk used for it.

Notice of adjustment

When replacing the following parts, adjust and check the items marked with O.

A.P. J.	Ostion Biologo	Mechanism P.W. Board		
Adjustment	Optical Pick-up	U102	D1	U1, 21, 101
1. Temperature compensation offset adjustment	×	0	0	0
2. Laser power adjustment	0	X	X	0
3. Traverse check	0	0	×	0
4. Focus bias adjustment	0	0	×	0
5. Error rate check	0	0	X	0

Creating the MO disk of continuous recording This disk is used for the focus adjustment bias and the error rate check. The following describes how to create the MO disk of continuous recording. 1. Load a MO disk (blank disk) sold in the market. 3. Press ENTER button to display [C_REC IN]. Turn ◄◄ - ►►I knob to display [C_REC MID] and push ENTER button. Recording will be started. (Display starts from [201:01]) 5. Recording will be stop about 3 minutes later. (Display shows [378:01]) 6. Press PLAY button to eject the MO disk. Note: Do not apply any vibration while performing continuous recording. Laser Power adjustment LDPWR Adjust Note: • Don't look the emit lighting of the laser diode from just above to prevent you from the loss of eyesight. Pay special attention to handle the laser diode of the optical pick-up, since it is easy to have an electrostatic break. Connection • Connect the digital voltmeter to TL1 (IOP) and TL2 (I+3V). TL2 (I+3V) U1 TL1 (IOP) Digital Voltmeter U103 TL1 (IOP) ► TL2 (I+3V) Mechanism P.W. Board Adjustment Method 1. Set the laser power meter on the object lens of the optical pick-up. (The optical pick-up is moved by pressing the manual search key.) 2. Turn ◄◄ - ▶► knob to display [LDPWR Adjust].

- 3. Press ENTER button to display [LD\$**=+3.4mW]. (**: Adjust setting value)
- Turn ◄◄ -►► knob so that the reading of the laser power meter becomes 3.3 to 3.5mW.
- 5. Press ENTER button to display [LD\$**=6.8mW]. : Writing laser power adjustment
- 6. Check that the readings of the laser power meter and the digital voltmeter are within specified values below.

Specification

Reading of the laser power meter: 6.8 ±0.3mW

Reading of the digital voltmeter: ±10% of indicated value on the

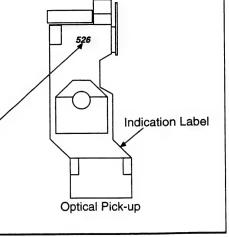
Optical Pick-up.

(Indication of the optical pick-up)

KMS260A XXXXX D0526

The value with handwriting is lop value. The value indicated on the label is rounded off. In case of 52.6mA, the value 52.6 is shown.

In this example, lop=52.6mA lop(mA)=The reading(mV) of digital voltmeter $\div 1$ (ohm)



- 7. Press ENTER button to display [LD\$★★=0.87mW].

 Adjust |◄◄ → ▶ knob and check that the reading of the laser power meter is 0.87 ±0.1mW.
- Press ENTER button to display [LD\$★★=0.68mW].
 Adjust ◄◄ ►► knob and check that the reading of the laser power meter is 0.68 ±0.1mW.
- 9. Press ENTER button to display [LDPWR Adjust], and stop the laser emit lighting.

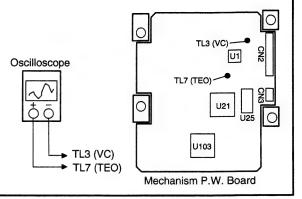
Note:

• Laser power adjustment and check should be performed at the ambient temperature 22°C \pm 2°C and humidity 50% \pm 5%. (If the ambient condition differs, the deviation values should be corrected.)

Traverse Adjustment EFBAL Adjust

Connection

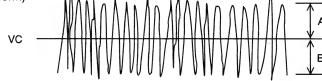
• Connect the oscilloscope to TL7 (TEO) and TL3 (VC)



Adjustment Method

- 1. Load a MO disk sold in the market.
- 2. Turn ◄◄ ▶► knob to display [EFBAL Adjust].
- 3. Press ENTER button to display [EFBAL MO_Writ].
- 4. Press ENTER button to display [EFB=\$**MO_W]. (**=Adjust setting value)
 Adjust I◄◄ → ▶▶ knob so that the waveform on the oscilloscope becomes A=B.

(Traverse waveform)



- 5. Press ENTER button to display [EFB=\$**MO_G]. (MO groove read power traverse adjustment)
- Turn I◄◄ ►► knob so that the waveform on the oscilloscope becomes A=B. (It should be adjusted closest to A=B.)
- 7. Press ENTER button to display [EFBAL MO-Pit].
- 8. Press ENTER button to display [EFB=\$**MO_P].

 The optical pick-up moves to the pit portion area automatically, and it is controlled by the servo.
- Turn ◄◄ ->> knob so that the waveform on the oscilloscope becomes A=B. (It should be adjusted closest to A=B.)
- 10. Press ENTER button to display [EFBAL CD], then the rotation of the disk automatically stops.
- 11. Press PLAY button to eject the MO disk.
- 12. Load the test disk TDYS-1.
- 13. Press ENTER button to be controlled by the servo. Display shows [FEB=\$**CD].

14. Turn the I◀◀ → ▶▶ knob so that the waveform on the oscilloscope becomes A=B.

(It should adjusted closest to A=B.)

15. Press ENTER button to display [EFBAL Adjust].

16. Press PLAY button to eject the test disk TDYS-1.

Note:

• If the recorded disk is used for this adjustment, the data is erased when writing into the MO disk.

• If the traverse waveform is difficult to see, it becomes better by connecting the filter as shown below.

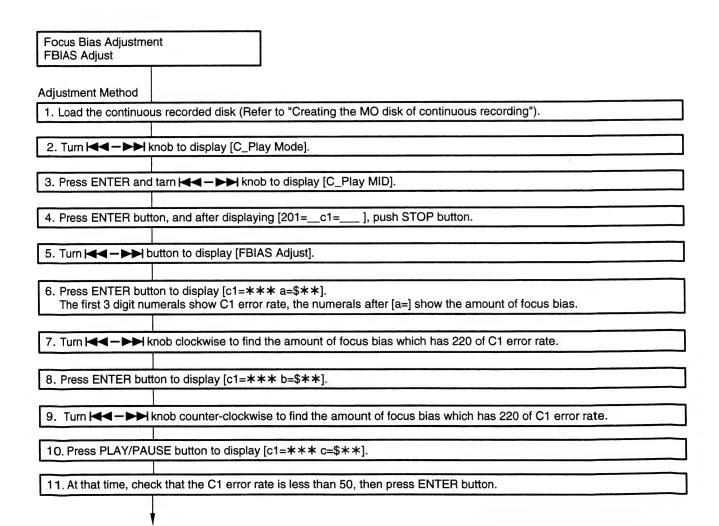
Oscilloscope

TP (TEO)

TP (TEO)

TP (VC)

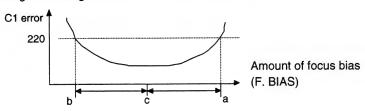
10 pF

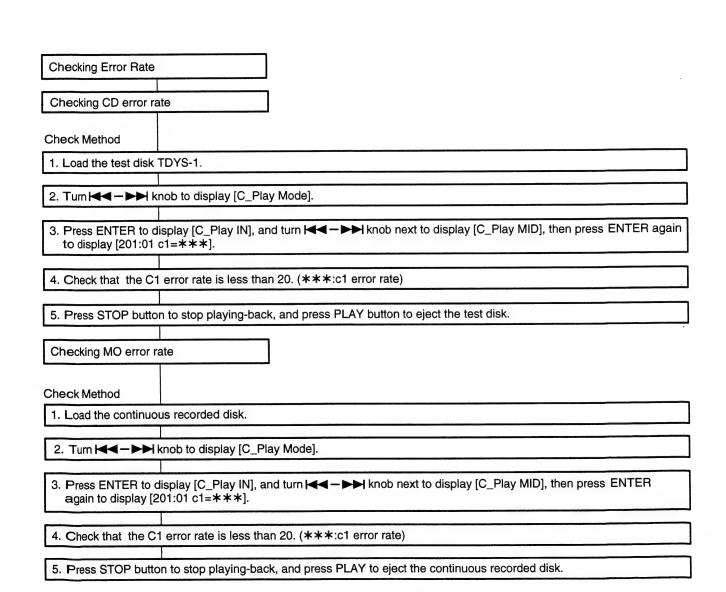


12. Press PLAY button to eject the continuous recorded disk.

Note:

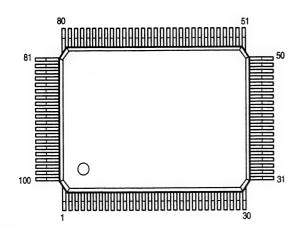
- The relation between C1 error and the amount of focus bias is shown in the figure below. Find the point a and b in the figure below after adjusting the process described above. The best focus point c can be obtained by calculating automatically from the points a, b.
- Adjust the C1 error rate by reading the average value since it has fluctuation.





SEMICONDUCTORS

μPD780206GF (IC107)



μPD780206GF Terminal Function

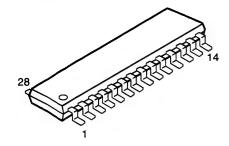
Pin No.	Pin Name	Symbol	1/0	Rst	Ini	Act	Ext	Function
1	VDD	VDD	_	_	_	_	_	Power supply (+5V)
2	P37	E_VOL_CLK	0	HZ	L	_	P.D	Clock signal output for E. VOL control
3	P36/BUZ	E_VOL_EN	0	HZ	L	_	P.D	Enable signal output for E. VOL control
4	P35/PCL	E_VOL_DAT	0	HZ	L	_	P.D	Data signal output for E. VOL control
5	P34/TI2	NC	1	HZ	L	_	_	Open (not used)
6	P33/TI1	NC	1	HZ	L		_	Open (not used)
7	P32/TO2	NC	1	HZ	L		_	Open (not used)
8	P31/TO1	NC	1	HZ	L	_	_	Open (not used)
9	P30/TO0	NC	1	HZ	L	_	_	Open (not used)
10	RESET	RESET	I	HZ	Н	L	P.UP	Reset signal input
11	X2	X2	-	_	_	_	_	X'tal connect terminal
12	X1	X1	1	_	_	_	_	X'tal connect terminal
13	IC(Vpp)	IC(Vpp)	T-	 -	_	_	_	GND
14	XT2	XT2	_	_	_	_		Open (not used)
15	P04/XT1	NC	1	HZ	L		_	Open (not used)
16	VDD	VDD	_	_	_	_	—	Power supply (+5V)
17	P27/SCK0	SCK_A	1	HZ	Н	_	P.D	Clock signal output for serial comm. (System)
18	P26/SO0/SB1	TXD_A	0	HZ	Н	_	P.UP	Data signal output for serial comm. (System)
19	P25/SI0/SB0	RXD_A	i	HZ	Н	_	P.UP	Data signal input for serial comm. (System)
20	P24/BUSY	NC.	1	HZ	L	_	_	Open (not used)
21	P23/STB	NC		HZ	L	_		Open (not used)
22	P22/SCK1	M_DSCK	0	HZ	H	_	P.D	Clock signal output for serial comm. (MD Mecha.)
23	P21/SO1	M_KDATA	0	HZ	Н	<u> </u>	P.D	Data signal output for serial comm. (MD Mecha.)
24	P20/SI1	M_MDATA	1	HZ	L	<u> </u>	_	Data signal input for serial comm. (MD Mecha.)
25	AVss	AVss	_	<u> </u>		_	<u></u>	GND
26	P17/ANI7	NC	1	HZ	_	_	<u> </u>	Open (not used)
27	P16/ANI6	NC	1	HZ	1-	<u></u>	1-	Open (not used)
28	P15/ANI5	BACKUP_CHECK	1	HZ	_	_	P.D	Input for backup power check
29	P14/ANI4	NC	1	HZ	_	<u> </u>	_	Open (not used)
30	P13/ANI3	REC_INPUT	1	HZ	<u> </u>	_	P.UF	S/W input for input select
31	P12/ANI2	KEY1	1	HZ	_	_	P.UF	Key input signal
32	P11/ANI1	KEY0	1	HZ	_	_	P.UF	Key input signal
33	P10/ANI0	NC		HZ	_	_	_	Open (not used)
34	AVDD	AVDD		_	_	_	1-	Power supply (+5V)
35	AVREF	AVREF		_	1-	-	-	Power supply (+5V)
36		NC	1	HZ	L	1-	-	Open (not used)
37	P02/INTP2	NC	1	HZ	L	1-	-	Open (not used)
38	P01/INTP1	M_DSTB	1	HZ	_	L	_	MD Mecha. comm. request signal input
39	P00/INTP0/TI	RMC	1	HZ	L	1-	P.UF	Remote control signal input
40	Vss	Vss		_	1-	1-	1-	GND
41	P74	NC	1	HZ	_	_	1-	Open (not used)
42	P73	NC	1	HZ	L	1-	-	Open (not used)

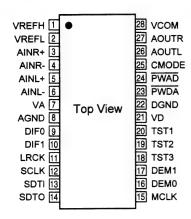
MD RECODER

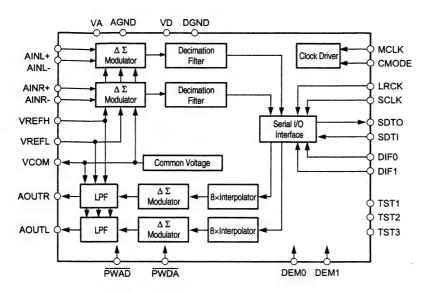
Pin No.	Pin Name	Symbol	I/O	Rst	lni	Act	Ext	Function
	P72	NC	1	HZ	L		_	Open (not used)
	P71	ENCODER1_1	1	HZ	L	_	P.UP	Encoder signal input
45	P70	ENCODER1_2	ı	HZ	L	_	P.UP	Encoder signal input
46	VDD	VDD	_	_	_	_		Power supply (+5V)
47	P127/FIP52	NC	1	HZ	L	_	_	Open (not used)
	P126/FIP51	PICLED	0	HZ	L	_	_	Output signal for LED on/off
49	P125/FIP50	NC	ī	HZ	L		_	Open (not used)
50	P124/FIP49	NC	1	HZ	L		_	Open (not used)
-	P123/FIP48	FLCS_A	0	HZ	Н	L	P.D	Chip select output for FL controller
52	P122/FIP47	FLCK_A	0	HZ	Н		P.D	Clock output for FL controller
53	P121/FIP46	FLDA_A	0	HZ	Н		P.D	Data output for FL controller
54	P120/FIP45	RESET_A	0	HZ	Н	L	P.D	Reset signal output for FL controller
55	P117/FIP44	NC	1	HZ	L	_	_	Open (not used)
56	P116/FIP43	NC	-	HZ	L	_	_	Open (not used)
57	P115/FIP42	NC	1	HZ	L	_	_	Open (not used)
58	P114/FIP41	M_POWN	0	HZ	L	L	P.D	Backup process command terminal
59	P113/FIP40	M_RESET	0	HZ	L	L	P.D	Reset signal output for MD Mecha.
60	P112/FIP39	M_LOADIN	1	HZ	L	L		Disc loading signal input, L: Loaded
61	P111/FIP38	M_MUTE	1	HZ	L	L	_	Mute signal input, L: Mute
62	P110/FIP37	M_EMPH	1	HZ	L	L	_	Emphasis signal input, L: Emphasis
63	P107/FIP36	NC	1	HZ	L	_	_	Open (not used)
64	P106/FIP35	NC	1	HZ	L		_	Open (not used)
65	P105/FIP34	NC	1	HZ	L	_	—	Open (not used)
66	P104/FIP33	NC	1	HZ	L	_	_	Open (not used)
67	P103/FIP32	NC	1	HZ	L	_	_	Open (not used)
68	P102/FIP31	NC	1	HZ	L	_	_	Open (not used)
69	P101/FIP30	OPTION1	1	HZ	L	_	_	Option input for area select
70	P100/FIP29	POWER_OFF_DETECT	1	HZ	L	L	P.UP	Input for power off detect
71	P97/FIP28	NC	0	L	L	_	_	Open (not used)
72	P96/FIP27	NC	0	L	L	_	_	Open (not used)
73	P95/FIP26	NC	0	L	L	_	 -	Open (not used)
74	P94/FIP25	NC	0	L	L	 	_	Open (not used)
75	P93/FIP24	NC	0	L	L	-	_	Open (not used)
76	P92/FIP23	NC	0	L	L	—	T-	Open (not used)
77	P91/FIP22	NC	0	L	L	-	T-	Open (not used)
78	P90/FIP21	NC	0	L	L	T-	T-	Open (not used)
79	VLOAD	VLOAD	_	-	T-	I —	T-	Open (not used)
80	P87/FIP20	M_MICON_ON	0	L	Н	_	P.D	Output for backup capacitor on/off, L: On, H: Off
81	P86/FIP19	POWER_OF_CONTROL	0	L	Н	-	P.D	Output for MD Mecha. power on/off, L: Off, H: On
82	P85/FIP18	BACKUP_TEST	0	L	L	Н	P.D	Output for backup power detect
83	P84/FIP17	DIGITAL_OUT_SELECT	0	L	L	_	_	Output for optical input 1/2 switching, L: Opt1, H: Opt2
84	P83/FIP16	OPTICAL_MUTE	0	L	Н	L	P.D	Output for optical input mute
85	P82/FIP15	EMPHA_A	0	L	L	L	P.D	Emphasis output signal for D/A control
86	P81/FIP14	ADRESET_A	0	L	L	Н	P.D	Reset output signal for D/A control
87	P80/FIP13	AMUTE_A	0	L	L	L	P.D	Output signal for analog output mute
88	FIP12	NC	0	L	L	_	_	Open (not used)
89	FIP11	NC	0	L	L	_		Open (not used)
90	FIP10	NC	0	L	L	_	_	Open (not used)
91	FIP9	NC	0	L	L	_		Open (not used)
92	FIP8	NC	0	L	L	_	_	Open (not used)
93	FIP7	NC	0	L	L	I-	_	Open (not used))
94	FIP6	NC	0	L	L	_	_	Open (not used)
95	FIP5	NC	0	L	L	1-	1-	Open (not used)
96	FIP4	NC	0	L	L	1-	1-	Open (not used)
97	FIP3	NC	0	L	L	1-	T-	Open (not used)
98	FIP2	NC	0	L	L	1-	T	Open (not used)
99	FIP1	NC	0	L	L	1-	1-	Open (not used)
-	FIP0	NC	0	L	L	1_	1-	Open (not used)
_			_			_	_	

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AK4520-VF (IC109)



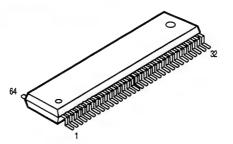


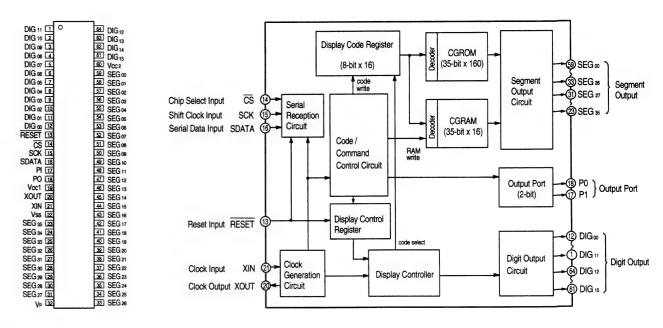


AK4520-VF Terminal Function

Pin No.	Pin Name	1/0	Function
1	VREFH	-	Positive voltage reference input pin, VA. Used with ADC and DAC as positive reference voltage. VREFH is connected to VA, throngh external filter.
2	VREFL	-	Negative voltage reference input pin, AGND. Used with ADC and DAC as negative reference voltage. VREFL is externally connected to AGND.
3	AINR+		Rch analog positive input pin.
4	AINR-	-1	Rch analog negative input pin.
5	AINL+	1	Lch analog positive input pin.
6	AINL-	1	Lch analog negative input pin.
7	VA	_	Analog power pin.
8	AGND	_	Analog GND pin.
9	DIF0	1	Audio data exchange format pin.
10	DIF1		Audio data exchange format pin.
11	LRCK	1	Input output channel clock pin.
12	SCLK	1	Audio serial data clock pin.
13	SDTI	1	Audio serial data input pin.
14	SDTO	0	Audio serial data output pin.
15	MCLK		Master clock input pin.
16	DEM0		De-emphasis frequency select pin.
17	DEM1	1	De-emphasis frequency select pin.
18	TST3	1/0	
19	TST2	1/0	Test pin, connect to DGND or leave open.
20	TST1	1	
21	VD	_	Digital power pin.
22	DGND		Digital GND pin.
23	PWDA	1	DAC power down mode pin.
24	PWAD		ADC power down mode pin.
25	CMODE	1	Master clock select pin. "H": 384fs, "L": 256fs
26	AOUTL	0	Lch analog output pin.
27	AOUTR	0	Rch analog output pin.
28	VCOM	0	Common voltage output pin, VA/2.

M66004FP (IC301)





M66004FP Terminal Function

0 1 1	T	
Symbol	Name	Function
RESET	Reset Input	Initializes internal state of M66004.
CS Chin Select Input		Able to communicate with MCU in "L" mode. Command from MCU will be disregareded in "H" mode.
SCK	Shift Clock Input	Shifts input data at rise from "L" to "H".
SDATA	Serial Data Input	Inputs character code or command data needed to display from MSB.
XIN Clock Input		Sets oscillation frequency by connecting external resistor and capacitor (maximum oscillation frequency fosc
Хоит	Clock Output	 (max)=1MHz). Also feasible to apply external clock. In this case, inject external clock to Xin terminal and open Xout terminal.
DIG 00 ~ DIG15	Digit Output	Connect to digit terminal of VFD. DIG00~DIG15 correspond to the 1st figure to 16th figure respectively.
SEG 00 ~ SEG 35	Segment Output	Connect to segment terminal of VFD. For corresponding SEG00~SEG35 to segment terminal of VFD, refer to the figure right.
P0, P1		Output port (static operation).
Vcc1		Positive power supply terminal for internal logic.
Vcc2		Positive power supply terminal for high tension output port.
Vss		GND terminal.
Vp		Negative power supply terminal for VFD drive.

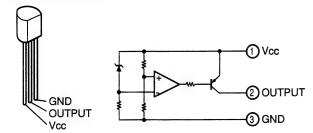
(Forwarding co	onnection of	segment	output	terminal.)
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 \square in the right figure indicates 1 dot of segment, the figure in \square shows the segment output terminal number (00 ~ 35) to be connected.

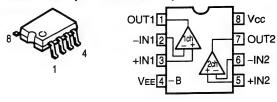
00	01	02	03	04
05	O 6	07	80	09
10	11	12	13	14
15	16	17	18	19
20	21	22	23	24
25	26	27	28	29
30	31	32	33	34

35

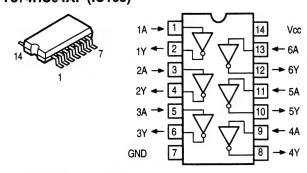
PST600C (IC108)



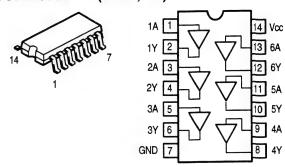
NJM4565MD (IC 101,102, 110)



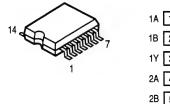
TC74HC04AF (IC103)

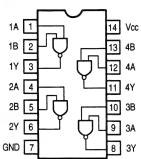


TC74HC7007AF (IC105,112)

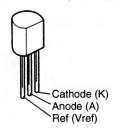


TC74HC004AF (IC104)

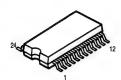


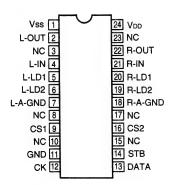


TL431CLP (IC113)



KIC9459F (IC111)

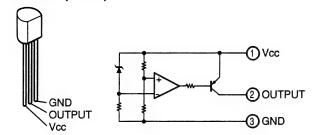




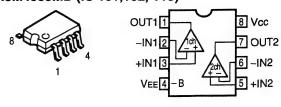
KIC9459F Terminal Function

Symbol	Name	Description	Note	
Vss	Power terminal (-)	VDD=6.0~17v Dual power use — GND=0v		
VDD	Power terminal (+)	VSS=6.0~-17v		
GND	Digital GND	Single power use VDD=6.0~18v GND=VSS=0v		
L-OUT	Values autout	OUT O-		
R-OUT	Volume output	561.5		
L-IN	Volume input	7.4kohm A1 26.3kohm		
R-IN	Volume input	LD1 0 /- 4KONM		
L-LD1		LD2 0 \$ \$18.7kohm		
R-LD1	Tap output for loudness	LA2	_	
L-LD2		A-GND O		
R-LD2		LA1 LA2		
L-A-GND	Analog common	Loudness "ON" ON OFF Loudness "OFF" OFF ON		
R-A-GND	Analog common	Loudiess Of T OFF ON		
CS1	Obije sedena izveda	Chip select code switching input.		
CS2	Chip select input	Max 4 units can be used simultaneously on ansame bus.		
СК	Clock input	Clock input for data transfer		
DATA Data input		Serial data input for volume setting	Low threshold input terminal	
STB	Strobe input	Strobe input for data write		
NC	No connection			

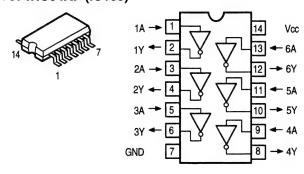
PST600C (IC108)



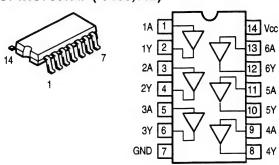
NJM4565MD (IC 101,102, 110)



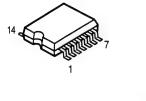
TC74HC04AF (IC103)

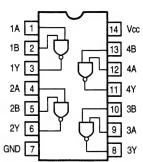


TC74HC7007AF (IC105,112)

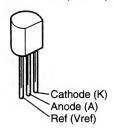


TC74HC004AF (IC104)

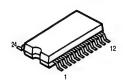


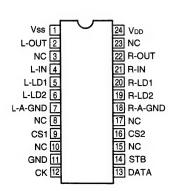


TL431CLP (IC113)



KIC9459F (IC111)



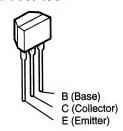


KIC9459F Terminal Function

NIC94	ogr Terminal i	-unction	
Symbol	Name	Description	Note
Vss	Power terminal (-)	Dual power use GND=0v	
VDD	Power terminal (+)	└─VSS=6.0~-17v	
GND	Digital GND	Single power use VDD=6.0~18v GND=VSS=0v	
L-OUT	V-l	OUT O	
R-OUT	Volume output	0010	
L-IN	Mahama inga	7.4kohm A1 26.3kohm	
R-IN	Volume input	LD1 0 7.4kohm 20.50mm	
L-LD1		LD2 O \$18.7kohm	
R-LD1	Tap output for loudness	LA2	
L-LD2	Tap output for loadiness	A-GND O	
R-LD2		LA1 LA2	
L-A-GND	- Analog common	Loudness "ON" ON OFF Loudness "OFF" OFF ON	
R-A-GND	Analog common	Loudiess OFF OFF ON	
CS1	Obie este disease	Chip select code switching input.	
CS2	Chip select input	Max 4 units can be used simultaneously on ansame bus.	
СК	Clock input	Clock input for data transfer	
DATA	Data input	Serial data input for volume setting	Low threshold input terminal
STB	Strobe input	Strobe input for data write	
NC	No connection		

OTRANSISTORS

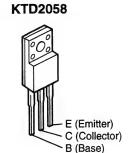
2SC1740S



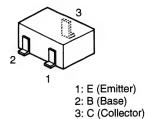
KSA916 B (Base)

C (Collector)

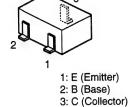
E (Emitter)

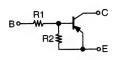




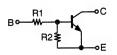


DTA124EK DTC124EK DTC343TK

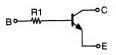




	R1	R2
DTA124EK	22kohm	22kohm



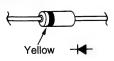
	R1	R2			
DTC124EK	22kohm	22kohm			

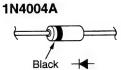


	R1
DTC343TK	4.7kohm

ODIODES



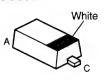




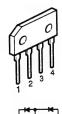




1SS355



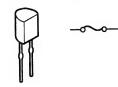






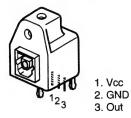
OIC PROTECTOR

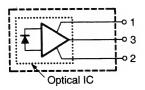
ICP-N15/ICP-N25 (IC120~122)



OPTICAL INPUT

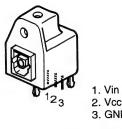
GP1F32R (JACK102,103)



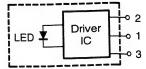


OPTICAL OUTPUT

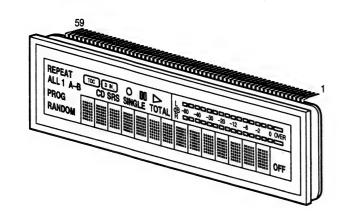
GP1F32T (JACK104)



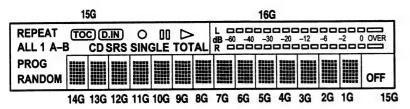
2. Vcc 3. GND



•FL DISPLAY 16-ST-13GK (FL301)



Grid Partition



1.1 2.1 3.1 4.1 5.1 1.2 2.2 3.2 4.2 5.2 1.3 2.3 3.3 4.3 5.3 1.4 2.4 3.4 4.4 5.4 1.5 2.5 3.5 4.5 5.5 1.6 2.6 3.6 4.6 5.6 1.7 2.7 3.7 4.7 5.7

(14G ~ 1G)

Pin Connection

Conection	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13
Conection	P4	P3	P2	P1	16G	15G	14G	13G	12G	11G	10G	9G
Pin No.	36	35	34	33	32	31	30	29	28	27	26	25
Conection	P16	P15	P14	P13	P12	P11	P10	P9	P8	P 7	P6	P5
Pin No.	48	47	46	45	44	43	42	41	40	39	38	37
Conection	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17
Pin No.	59	58	57	56	55	54	53	52	51	50	49	
Conection	F2	F2	NP	NP	P35	P34	P33	P32	P31	P30	P29	

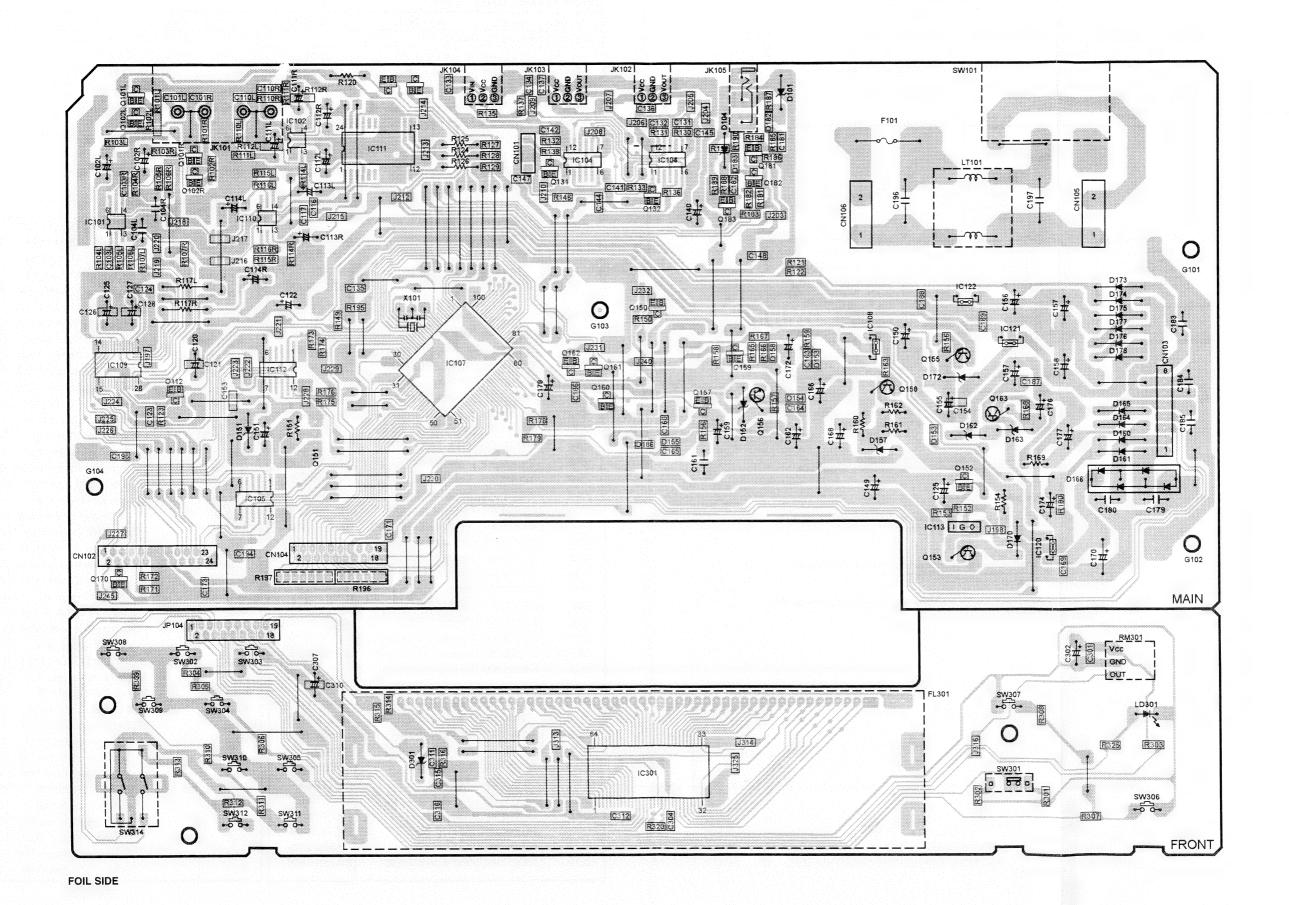
Note: 1. F1, F2 · · · · Filament
2. NP · · · · · · No Pin
3. DL · · · · · · Datum Line
4. 1G~16G · · · · Grid

Anode Connection

1	16G	15G	14G ~ 1G
P1	R1	TOTAL	1-1
P2	R2		2-1
P3	R3	SINGLE	3-1
P4	R4	00	4-1
P5	R5	0	5-1
P6	R6	CDSRS	1-2
P7	R7	(D.IN)	2-2 3-2
P8	R8	(TOC)	3-2
P9	R9	В	4-2
P10	R10	A-	4-2 5-2 1-3
P11	R11	1	1-3
P12	R12	REPEAT	2-3
P13	R13	ALL	3-3
P14	R14	PROG	4-3
P15	R15	RANDOM	5-3
P16	R16	_	1-4
P17	_	_	2-4
P18	S1		3-4
P19	L1		4-4
P20	L2	_	5-4
P21	L3	_	1-5
P22	L4	_	2-5 3-5
P23	L5		3-5
P24	L6	_	4-5
P25	L7	_	5-5
P26	L8	_	1-6
P27	L9	_	2-6
P28	L10	_	3-6
P29	L11	_	4-6
P30	L12	_	5-6
P31	L13		1-7
P32	L14		2-7
P33		_	3-7
P34		_	4-7
P35		OFF	5-7
			

В

MD RECORDER



E

D-F100

MD RECORDER

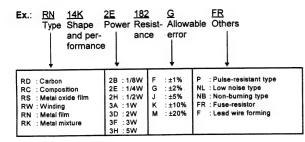
NOTE FOR PARTS LIST

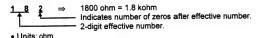
- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol Λ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

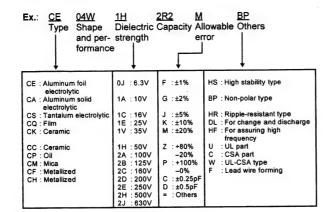
Resistors





1.2 ohm
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

Capacitors



* Capacity (electrolyte only)

2 2 ⇒ 2200µF Indicates number of zeros after effective number. 2-digit effective number.

* Capacity (except electrolyte) 2 2 2 ⇒ 2200pF=0.0022µF

(More than 2)—Indicates number of zeros after effective number.

2-digit effective number.

• Units: μF.

 $\frac{2}{1}$ \Rightarrow $\frac{220pF}{1}$ Indicates number of zeros after effective number. 2-digit effective number.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

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PARTS LIST OF P.W.B. UNIT MAIN P.W.B. UNIT ASS'Y

MAIN P.V		r	Remarks	Ref. No.	Part No.	Part Name	Remarks
Ref. No.	Part No.	Part Name	i telliai KS	D173~178	960 0117 608	Diode 1N4004A	K040400400520
	DUCTORS G		1404 45050000	D173~178	960 0117 608	Zener diode MTZJ6.2B	K06006R244520
IC101,C102	928 0035 809	IC NJM4565MD	J121456500040	D181 D182,183	960 0095 704	Diode 1SS355	K005035500010
IC103	262 2229 908	IC TC74HC04AF	J040740400060	D182,183	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
IC104	960 0133 200	IC TC74HC00	J040740000130	D184 D185,186	960 0095 704	Diode 1SS355	K005035500010
IC105	262 2376 903	IC TC74HCT7007AF	J040747007010	D 100,100	000 0117:001	5,530 755555	
IC107	960 0135 923	IC UPD780206GF058-3BA		D301	9L2 3481 42M	Zener diode MTZJ7.5B	K06007R544520
IC108	960 0119 208	IC PST600C	J125600200020	D301	3LZ 3401 42W	ZONGI GIOGO INTZUT.OD	
IC109	9LC K077 11R	IC AK4520A-VF-E2	J040452000010	LD301	960 0134 403	LED PI3-RD/HL	K500032002080
IC110	928 0035 809	IC NJM4565MD	J121456500040	LUSUI	300 0134 403	LED TIO-HD/HL	
IC111	960 0133 307	IC KIC9459F	J084945900010				
IC112	262 2376 903	IC TC74HCT7007AF	J040747007010	RESISTO	RS GROUP		
IC113	960 0133 006	IC TL431CLP	J126431000010	R101L,101R		Carbon chip 100 ohm 1/10W	C200010160200
IC120	268 0075 000	IC ICP-N25	J120002500010	R102L,102R		Carbon chip 220 ohm 1/10W	C200022160200
IC121,122	268 0073 002	IC ICP-N15	J120001500010	R103L,103R		Carbon chip 220 ohm 1/10W	C200022160200
				R104L,104R		Carbon chip 8.2 kohm 1/10W	C200082260200
IC301	262 1954 009	IC M66004FP	J127660040010	R105L,105R		Carbon chip 4.7 kohm 1/10W	C200047260200
				R106L,106R		Carbon chip 4.7 kohm 1/10W	C200047260200
Q101L,101R	269 0104 903	Transistor DTC343TK	J5220343T0210	R107L,107R		Carbon chip 220 ohm 1/10W	C200022160200
Q102L,102R	269 0104 903	Transistor DTC343TK	J5220343T0210	R110L,110R		Carbon chip 1 kohm 1/10W	C200010260200
Q110	269 0102 905	Transistor DTC124EK	J5220124E0210	R111L,111R		Carbon chip 100 kohm 1/10W	C200010460200
Q111	269 0119 901	Transistor DTA124EK	J5200124E0210	R112L,112R		Carbon chip 100 kohm 1/10W	C200010460200
Q112	269 0102 905	Transistor DTC124EK	J5220124E0210	R114L,114R		Carbon chip 100 kohm 1/10W	C200010460200
Q131,132	269 0102 905	Transistor DTC124EK	J5220124E0210	R115L,115R		Carbon chip 10 kohm 1/10W	C200010360200
Q150	269 0102 905	Transistor DTC124EK	J5220124E0210	R116L,116R	1	Carbon chip 27 kohm 1/10W	C200027360200
Q151	273 0178 022	Transistor 2SC1740SR	J5021740S0010	R117L,117R		Carbon film 470 ohm 1/5W	C00004716P520
Q152	269 0102 905	Transistor DTC124EK	J5220124E0210	R120		Carbon chip 680 ohm 1/10W	C200068160200
Q153	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R121,122		Carbon chip 3.3 kohm 1/10W	C200033260200
Q154	269 0102 905	Transistor DTC124EK	J5220124E0210	R123		Carbon chip 10 kohm 1/10W	C200010360200
Q155	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R124~126		Carbon film 1 kohm 1/5W	C00001026P520
Q156	273 0178 022	Transistor 2SC1740SR	J5021740S0010	R124~120		Carbon chip 100 kohm 1/10W	C200010460200
Q157	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R135		Carbon chip 220 ohm 1/10W	C200022160200
Q158	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R136		Carbon chip 10 kohm 1/10W	C200010360200
Q159	273 0384 900		J5222412K0210	R137		Carbon chip 430 ohm 1/10W	C200043160200
Q160	269 0102 905		J5220124E0210	R137		Carbon chip 220 ohm 1/10W	C200022160200
Q161	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R139		Metal film 47 ohm 1/4W	C060047063050
Q162	269 0102 905	Transistor DTC124EK	J5220124E0210	R139		Carbon chip 220 ohm 1/10W	C200022160200
Q163	960 0133 103	Transistor KSA916Y	J5000916Y0050	R150		Carbon chip 10 kohm 1/10W	C200010360200
Q170	269 0102 905		J5220124E0210	R150		Metal film 100 ohm 1/4W	C060010163050
Q181,182	271 0238 908		J5201037K0210	R151		Carbon chip 1.5 kohm 1/10W	C200015260200
Q183	273 0384 900		J5222412K0210	R152		Carbon chip 1.6 kohm 1/10W	C200016260200
				11	1	Metal film 220 ohm 1/4W	C060022163050
D151	960 0132 706	Zener diode MTZJ3.6B	K06003R644520	R154		Carbon chip 1 kohm 1/10W	C200010260200
D152	960 0132 803		K06004R744520	R155			C200010260200
D153~155	960 0117 501		K005035500010	R156		Carbon chip 100 ohm 1/10W	C200016160200
D157	960 0095 704		K06006R244520	R157		Carbon chip 56 ohm 1/10W	C200030000200
D158,159	960 0117 501		K005035500010	R158		Carbon chip 100 kohm 1/10W	C200010400200
D160,161	276 0401 905		K000013300520	R159		Carbon chip 4.7 kohm 1/10W	C060010163050
D162,163	960 0132 900		K06015R044520	R160		Metal film 100 ohm 1/4W	
D164,165	960 0117 608		K040400400520	R161,162		Metal film 560 ohm 1/4W	C060056165050
D164,103	960 0133 909		K047400300020	R163		Carbon chip 750 ohm 1/10W	C200075160200
D100	960 0133 303		K040400400520	R165		Carbon chip 100 ohm 1/10W	C200010160200
D170	276 0664 904		K06005R644520	R166		Carbon chip 100 kohm 1/10W	
1 01/2	2,00004 304	20101 0.000 111 200.00		R167		Carbon chip 10 kohm 1/10W	C200010360200

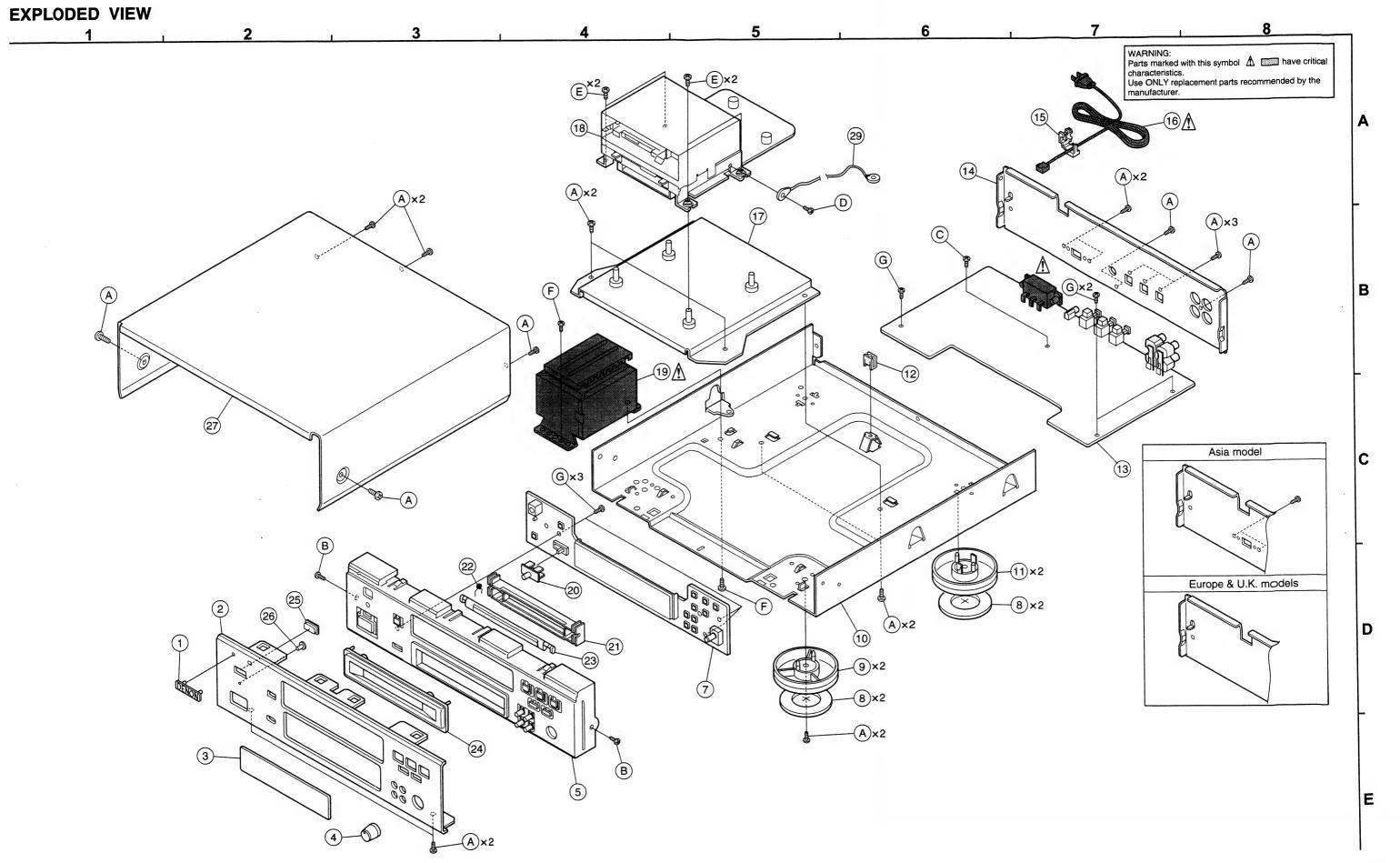
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R168		Carbon chip 2.2 kohm 1/10W	C200022260200	C127		Electrolytic 10 μF/50V	D040100087050
R169		Metal film 4.7 ohm 1/4W	C0604R7063050	C128		Ceramic chip 0.1 μF/50V	D011104597200
R171~176		Carbon chip 47 kohm 1/10W	C200047360200	C131		Ceramic chip 10 pF/50V	D010100117200
R178		Carbon chip 100 kohm 1/10W	C200010460200	C132		Ceramic chip 10 pF/50V	D010100117200
R180		Carbon chip 1.8 kohm 1/10W	C200018260200	C133		Ceramic chip 0.047 μF/50V	D011473597200
R181~183		Carbon chip 10 kohm 1/10W	C200010360200	C134,135		Ceramic chip 0.1 µF/50V	D011104597200
R184,185		Carbon chip 22 kohm 1/10W	C200022360200	C136,137		Ceramic chip 0.047 μF/50V	D011473597200
R186		Carbon chip 1 kohm 1/10W	C200010260200	C140		Electrolytic 100 μF/10V	D040101082060
R187		Carbon chip 100 ohm 1/10W	C200010160200	C141,142		Ceramic chip 0.01 μF/50V	D011103597200
R188,189		Carbon chip 10 kohm 1/10W	C200010360200	C144,145		Ceramic chip 0.01 μF/50V	D011103597200
R190		Carbon chip 220 ohm 1/10W	C200022160200	C146,147		Ceramic chip 220 pF/50V	D010221167200
R191		Carbon chip 47 kohm 1/10W	C200047360200	C148		Ceramic chip 0.01 μF/50V	D011103597200
R195		Carbon chip 100 kohm 1/10W	C200010460200	C149		Electrolytic 1000 µF/6.3V	D040102081050
R196		Resistor network 10 kohm×4	C180103050500	C150		Electrolytic 470 µF/6.3V	D040471081060
R197		Resistor network 10 kohm×6	C180103070500	C151		Electrolytic 100 µF/10V	D040101082060
11107				C152		Electrolytic 10 µF/50V	D040100087050
R301		Carbon chip 4.7 kohm 1/10W	C200047260200	C153,154		Ceramic chip 0.01 µF/50V	D011103597200
R302		Carbon chip 100 ohm 1/10W	C200010160200	C155		Electrolytic 10 µF/50V	D040100087050
R303		Carbon chip 47 ohm 1/10W	C200047060200	C156		Electrolytic 330 µF/16V	D040331083200
R304		Carbon chip 1.8 kohm 1/10W	C200018260200	C157,158	960 0133 501	Electrolytic 2200 µF/16V	D040222083080
R305		Carbon chip 2.7 kohm 1/10W	C200027260200	C159		Electrolytic 100 µF/10V	D040101082060
R306		Carbon chip 4.7 kohm 1/10W	C200047260200	C160		Ceramic chip 0.01 µF/50V	D011103597200
R307		Carbon chip 8.2 kohm 1/10W	C200082260200	C161	960 0133 608	Electric double layer 1 F/5.5V	D090105000010
R308		Carbon chip 22 kohm 1/10W	C200022360200	C162		Electrolytic 100 μF/10V	D040101082060
R309		Carbon chip 1.8 kohm 1/10W	C200018260200	C163~165		Ceramic chip 0.01 µF/50V	D011103597200
R310		Carbon chip 2.7 kohm 1/10W	C200027260200	C166		Electrolytic 470 μF/6.3V	D040471081060
R311		Carbon chip 4.7 kohm 1/10W	C200047260200	C168		Electrolytic 22 µF/16V	D040220083070
R312	-	Carbon chip 8.2 kohm 1/10W	C200082260200	C169		Ceramic chip 0.01 µF/50V	D011103597200
R313		Carbon chip 22 kohm 1/10W	C200022360200	C170	960 0133 404	Electrolytic 10000 µF/16V	D040103083020
R314,315		Carbon chip 100 ohm 1/10W	C200010160200	C171		Ceramic chip 0.01 µF/50V	D011103597200
R316		Carbon chip 10 kohm 1/10W	C200010360200	C172		Electrolytic 1 µF/50V	D040010087050
R320	1.	Carbon chip 27 kohm 1/10W	C200027360200	C173		Ceramic chip 0.01 μF/50V	D011103597200
R325		Carbon chip 330 ohm 1/10W	C200033160200	C174		Electrolytic 47 μF/16V	D040470083080
11020		Carbon only 300 only 17 to 11	0200000100200	C175		Electrolytic 100 µF/50V	D040101087060
1				C176		Electrolytic 10 μF/50V	D040100087050
CAPACIT	ORS GROU	JP.		C177		Electrolytic 100 µF/50V	D040101087060
C101L,101R		Ceramic chip 470 pF/50V	D010471167200	C178		Electrolytic 100 μF/10V	D040101082060
C102L,102R		Electrolytic 22 μF/16V	D040220083070	△C179,180		Ceramic 0.01 µF/500V	D00410359D050
C103L,103R		Ceramic chip 330 pF/50V	D010331167200	C181,182		Ceramic chip 0.001 µF/50V	D011102777200
C104L,104R		Film 0.0027 μF/100V	D02027206C060	△ C183~185		Ceramic 0.01 µF/500V	D00410359D050
C110L,110R		Ceramic chip 100 pF/50V	D010101167200	C186~189		Ceramic chip 0.01 µF/50V	D011103597200
C111L,111R		Electrolytic 22 µF/16V	D040220083070	C194,195		Ceramic chip 0.01 µF/50V	D011103597200
C112L,112R		Electrolytic 22 μF/16V	D040220083070	△ C196,197	963 0020 804	Ceramic 0.0047 uF/250V	D008472089000
C113L,113R		Electrolytic 22 μF/16V	D040220083070				
C114L,114R		Electrolytic 1 μF/50V	D040010087050	C301		Ceramic chip 0.01 µF/50V	D011103597200
C116,117		Ceramic chip 0.1 μF/50V	D011104597200	C302		Electrolytic 100 μF/10V	D040101082050
C120		Electrolytic 100 μF/10V	D040101082060	C304		Ceramic chip 100 pF/50V	D010101167200
C121		Ceramic chip 0.01 μF/50V	D011103597200	C307	Terre d	Electrolytic 100 µF/10V	D040101082050
C122		Electrolytic 100 μF/10V	D040101082060	C310~312		Ceramic chip 0.01 µF/50V	D011103597200
C123		Ceramic chip 0.01 μF/50V	D011103597200	C310~312		Ceramic chip 0.01 µF/50V	D011103597200
C124		Ceramic chip 0.1 μF/50V	D011104597200	0310,010		Octamile only 0.01 µt /30V	5011150007200
C125		Electrolytic 10 μF/50V	D040100087050				
C126		Ceramic chip 0.1 μF/50V	D011104597200		-		

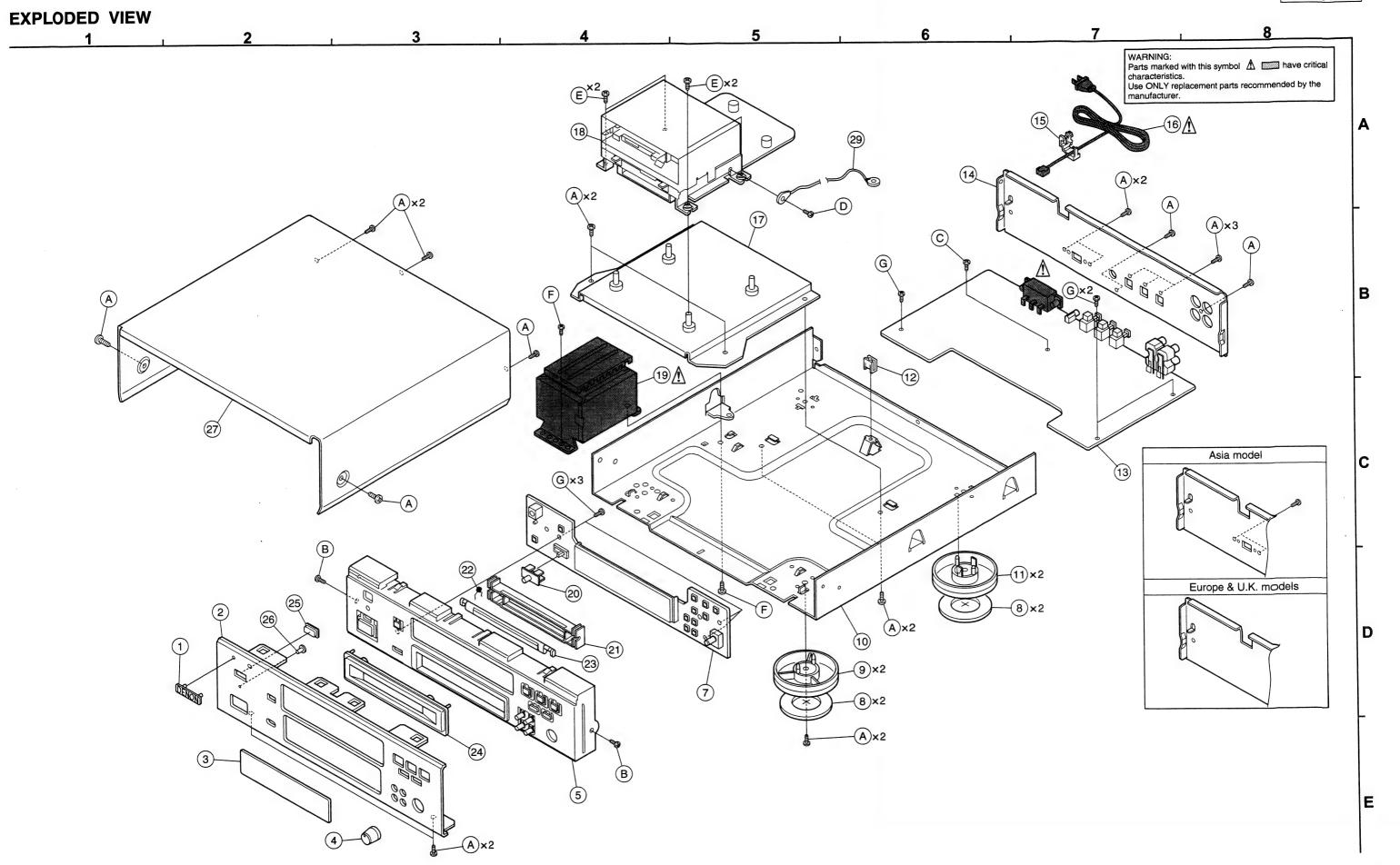
Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PA	ARTS GROU			
CN101	960 0134 005	4P connector base	L101530140410	1
CN102	960 0134 102	24P FPC connector base	L130358022410	1
CN103	960 0118 801	8P connector base	L102526700800	1
CN104	960 0134 209	19P FPC connector base	L130528061910	1
CN105	960 0123 304	2P connector base	L104353280200	1
CITIOO	300 0120 001	El Commodor Dago	Europe & U.K.	
			Models	
CN105	960 0142 408	3P connector base	L108353280310	1
ONTOS	300 0142 400	Of Confidence Ease	Asia Model	
CN106	960 0118 908	2P connector base	L108039602010	1
ONTO	300 0110 000	El cominación basa		
ΔF101	960 0142 709	Fuse 250V 1A	G650102251160	1
			Asia Model only	
FL301	960 0134 607	FLD (16-ST-13GK)	K530161300110	1
1 200 1	000 010 1007	1 25 (10 0) 10011)		
J313,314		Carbon chip 0 ohm 1/8W	C200000061300	2
J316		Carbon chip 0 ohm 1/8W	C200000061300	1
J325		Carbon chip 0 ohm 1/8W	C200000061300	1
5025		Carbon cinp o cinii non		
JACK101	960 0133 802	4P pin jack	G602040131010	1
JACK102,103	963 0025 304	Optical connector (GP1F32R)	E100132000020	2
JACK104	269 0098 006	Optical connector (GP1F32T)	E100132000010	1
JACK105	960 0004 407	Mini jack	G401031102010	1
UACITIOS	300 0004 407	TVIIII JAON		
JP104	960 0134 704	19P FPC connector base	L130528071910	1
			A	
L101	960 0133 705	Coil 1MH	D320111600010	1
RM301	960 0050 105	Remocon sensor	E940460200010	1
∆SW101	963 0027 700	Slide switch	G060040550010	1
			Asia Model only	
SW301	960 0011 801	Slide switch	G060313012010	- 1
SW302~312	960 0069 206	Tact switch	G180215050010	11
SW314	960 0134 500	Rotary switch	G120122424010	1
X101	399 0107 900	Ceramic 4.19 MHz	E830419000060	1
	960 0127 805	Earth plate	4470200016010	1
	960 9006 600	GND terminal	3790040876010	3
	960 0005 804	Fuse holder	G645000050010), 1
			for F101	
			Asia Model only	
		Carbon chip 0 ohm 1/8W	C200000061300	32
	960 0050 309	FL supporter	4070020076010	1
				1.
				1

Second Second

PARTS LIST OF EXPLODED VIEW

Ref.	—13 —13 — 7	960 0132 612 960 0134 306	Main P.W.B. unit ass'y Main P.W.B. unit ass'y	Remarks 7025HM9802010 Europe & U.K. Models 7025HM9802040	1 1
	— 13	960 0132 612		Europe & U.K. Models 7025HM9802040	
			Main P.W.B. unit ass'y	7025HM9802040	1
			Main P.W.B. unit ass'y		1
	<u> </u>	060 0134 306			
	└─ 7	060 0404 000		Asia Model	
		300 0134 306	Front P.W.B. unit		
	1	960 0115 707	DENON badge	5630210008000	1
	2	960 0131 008	Front panel	3067210048110	1
	3	960 0115 309	Display window	5077210043010	1
	4	960 0132 007	Control knob	5087210031010	1.
	5	960 0131 105	Front frame	3217210021110	1
	8	960 0003 505	Foot cushion	4050020075010	4
	9	960 0003 408	Foot	4007000061010	2
	10	960 0131 804	Main chassis	3200210086000	1
	11	960 0115 008		4000210001000	2
	12	960 0003 301	P.W.B. support	4070001601010	1
	14	960 0131 723	Back chassis	3207210046010	1
	14	900 0131 723	Dack Chassis	Europe & U.K. Models	'
		000 0101 700	D. I. I. I.		4
	14	960 0131 736	Back chassis	3207210046110	1
				Asia Model	
	15	960 0135 305	Cord stopper	4380040162010	1
Δ	16	960 0032 301	AC cord	L061000410010	1
	17	960 0131 901	Mecha. bracket	4010210056000	1
	18	960 0134 801	MD mecha.	803020000010	1
Δ.	19	960 0143 504	Power trans.	8200570013010	1
				Europe & U.K. Models	
Δ	19	960 0135 606	Power trans.	8200570013030	1
				Asia Model	
	20	960 0121 306	Selector knob	5087210041010	1
	21	960 0131 406	Door holder	4320020611011	1
	22	960 0131 309		3720020316020	1
	23	960 0131 503		5047020251020	1
	24	960 0131 202		3407210001010	1
	25	960 0131 202	Remocon window	5070210033000	1
		960 0114 708			1
	26	And the second second	Attended to see a second	3710210013000	1
	27	960 0121 005	Top cover	3000210006100	1
*		960 0132 201	Caution label	5527067010010	1
	29	960 0135 703	the state of the s	8410101220010	1
*	30	960 0135 800	4P connector cord	L000181040030	1
*	r 31	960 0135 101	19P FPC	L301161190010	1
*	₹ 32	960 0135 208	24P FPC	L301171240010	. 1
901	REWS				
301		T	000 ODTO/D\ D	D000000000D10	10
	Α	960 0108 604		B020030083B10	18
	A	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10,	2
				for SW101	
				Asia Model only	
	В	960 9008 006	Screw 3×8 CFTS(B)-B	B020030083F10	4
			Screw 3×17 CBTS(B)-Z	B020030171B10	1
	C	963 0018 104	201011 0011 0010(0) 2	D020030171D10	1
	C	And Annual to the second		B010920051B10	1
	D	960 9008 103	Screw 2×5 CBTS(C)-Z	B010920051B10	1
		And Annual to the second	Screw 2×5 CBTS(C)-Z Screw 2×6 CPTS(C) W-Z	The second of the second	





PARTS LIST OF MD MECHANISM UNIT (DYMC2Z204A)

		F MD MECH	1		-	Part No.	Part Name	Remarks	Q'ty
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.		Part Name	Remarks	<u> </u>
		Spindle motor ass'y block	D018S014	1	SCREWS				
2		Sled motor ass'y	D018S012	1	6		Screw 1.7×2	FG164-15	3
3	9DD 018S 013	Loading motor ass'y	D018S013	1	21	9DU G16C 15	Screw 1.7×3	UG16C-15	1
4	9DD 022S 011	Loading ass'y	D022S011	1	22	9DU G23V 12	Screw 1.7×6	UG23V-12	5
5	9DD D116 22		DD116-22	1	23	9DU G23V 11	Screw 1.7×3	UG23V-11	4
7	9DD N114 12	Sled pinion	DN114-12	1	24	9DU G16C 12	Screw 1.7×4	UG16C-12	2
8	9DD N113 12	2nd gear	DN113-12	1	32	9DK G194 34	Screw 2×4	KG194-34	5
9	9DD N112 12	1st gear	DN112-12	1	56	9DU G23U 12	Screw 2×5-W	UG23U-12	3
10	9DD L111 11	Pick up shaft	DL111-11	1					
11	9DD K112 13	Spindle stabilizer	DK112-13	1					
12	9DD D111 18	Rear guide block	DD111-18	1					
13		Front guide block	DD112-17	1					
14	9DD D115 13	_	DD115-13	1					
15		Pick up unit	DV111-11	1					
16	9DD N116 22	•	DN116-22	1					
17	9DD D114 15		DD114-15	1		1			
18		Rack slide spring	DK111-11	1					
19	9DD C112 12		DC112-12	1				,	
20		Switch lever spring	DK118-13	1					
25	9DD U111 11		DU111-11	1	ı				
			DC115-16	1					
26		Loading mode rack	1						
27	1	Side bracket (L)	DC113-15	1					
28	9DD C116 12		DC116-12	1					
29	9DD C117 14		DC117-14	1					
30	9DD K114 11		DK114-11	1		·			
31	1	Side bracket (R)	DC114-17	1					
33	9DD C118 18	, ,	DC118-18	1					
34	9DD C120 52		DC120-52	1					
35	D9D C119 15		DC119-15	1					
36	9DD C124 22		DC124-22	1					
37	9DD C122 14	0 01	DC122-14	1					
38	9DD K113 12		DK113-12	1 1					
39	9DD D118 24		DD118-24	1					
40	9DD K117 30		DK117-30	1					
41	9DD K116 21		DK116-21	1					
42	9DD K119 11		DK119-11	1	ll.				
43	9DD C123 13		DC123-13	1					
44	9DD K115 12		DK115-12	1					
45	9DD 0160 14		D016-014	1	11				
46	9DD D131 11	Bush	DD131-11	1					
47	_	Filament tape	EF14U-00, 20mm	1	11				
48	9DD P113 11	Pick up FPC	DP113-11	1					
49	9DD L113 12	Switch knob (L)	DL113-12	1	!				
50	9DD L112 12	Switch knob (S)	DL112-12	1]]				
51	_	Wire (BLK)	WG57M-10	2					
52	9DF J111 18	Washer poly ¢2.1×0.25	FJ111-18	1	11				
54	9DD R111 11	Insulator	DR111-11	4	11				
57	1	Stopper spring	DK128-12	1	ll .				
58	9DD C130 12	Holder stopper	DC130-12	1]]				
60	9DD 022S 013	Loading ass'y	D022S013	1					
					II				

PARTS LIST OF MD MECHANISM P.W.B. UNIT ASS'Y

(DYMC2Z204A)

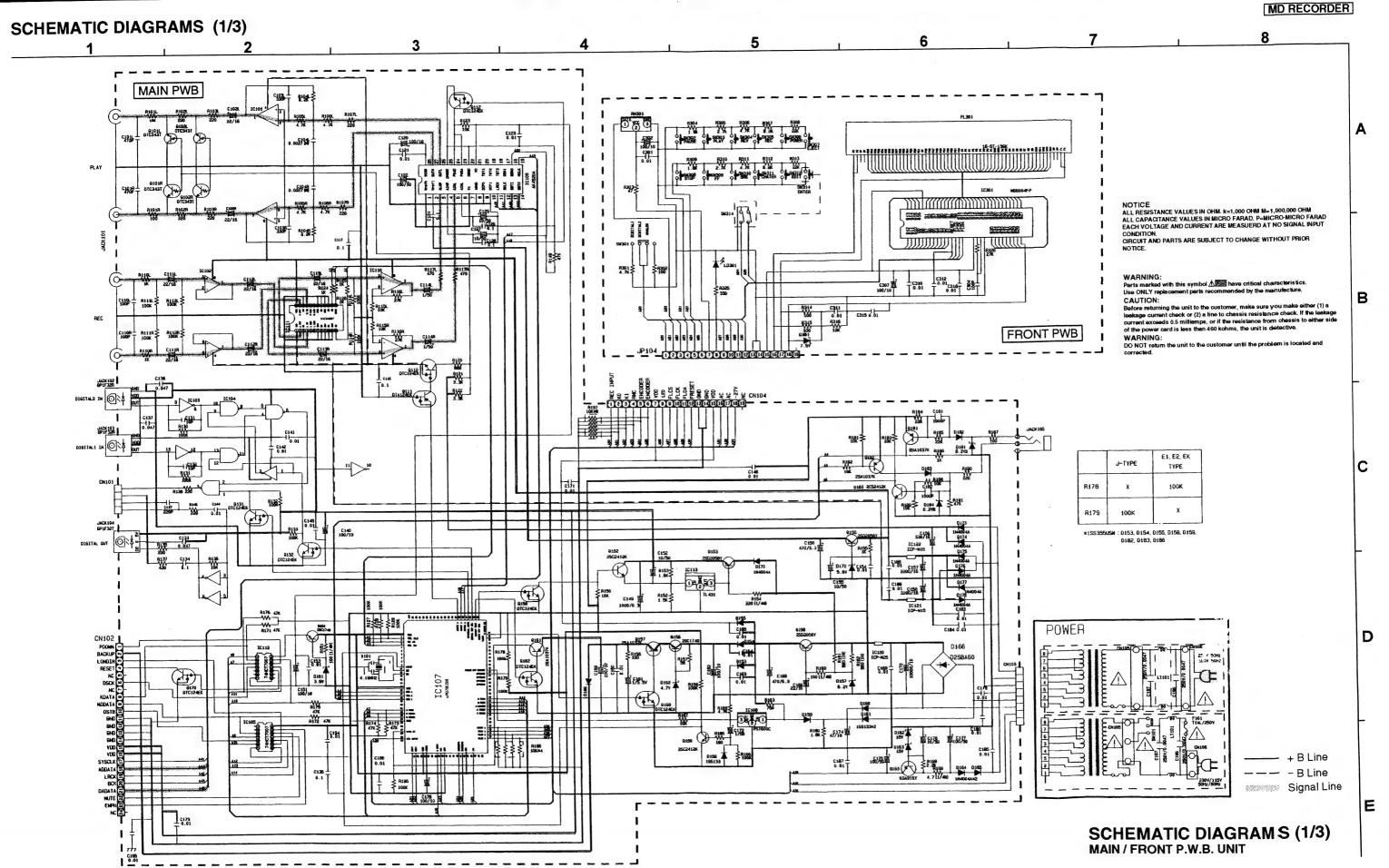
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS G	ROUP		R36		Carbon chip 1 kohm 1/16W	102J1/16
U1	9R5 0000 170	IC CXA2523AR		R37		Carbon chip 100 ohm 1/16W	101J1/16
U21		IC CXD2652AR		R40		Carbon chip 150 ohm 1/16W	151J1/16
U22	9R5 0000 191	IC TC7S08FU		R41		Carbon chip 0 ohm 1/16W	000J1/16
U25	9R5 0000 192	IC MSM51V4400		R42,43		Carbon chip 100 kohm 1/16W	104J1/16
U52	9R5 0000 173	IC BH6511FS		R44		Carbon chip 100 ohm 1/16W	101J1/16
U81	9R5 0000 193	IC MC74ACT240		R46		Carbon chip 330 ohm 1/16W	331J1/16
	0,10,000,100			R47		Carbon chip 100 ohm 1/16W	101J1/16
U100	9R5 0000 194	IC TC55257DFTL-70V	- 1	R48		Carbon chip 680 ohm 1/16W	681J1/16
U101	9R5 0000 176	IC L88MS33T		R50		Carbon chip 0 ohm 1/16W	000J1/16
U102	9R5 0000 160	IC 24LC01B		R58,59		Carbon chip 100 kohm 1/16W	104J1/16
U103	9R5 0000 177	IC H8/3048		R61~63		Carbon chip 2.2 kohm 1/16W	222J1/16
U104	S87 5982 387	IC LB1638M		R64		Carbon chip 680 ohm 1/16W	681J1/16
U105	S87 5905 860	IC TC7SU04FU		R65		Carbon chip 100 kohm 1/16W	104J1/16
0103	007 0000 000	10 10/000410		R66		Carbon chip 2.2 ohm 1/4W	2R2J1/4(3225)
Q1	9R5 0000 195	Transistor DTA114YUA		R67		Carbon chip 4.7 kohm 1/16W	472J1/16
Q2	9R5 0000 196	Transistor 2SA1576A		R69		Carbon chip 1 ohm 1/10W	1R0J1/10(2125)
Q3,4	9R5 0000 198	Transistor DTC114YUA		R72		Carbon chip 0 ohm 1/16W	000J1/16
Q10	9R5 0000 159	Transistor UMW1N	1.8	R75		Carbon chip 3.3 kohm 1/16W	332J1/16
Q62	9R5 0000 197	Transistor 2SB798		R77		Carbon chip 3.3 kohm 1/16W	332J1/16
Q63	9R5 0000 195	Transistor DTA114YUA	1.8	R78		Carbon chip 0 ohm 1/16W	000J1/16
Q80	9R5 0000 198	Transistor DTC114YUA	1	R79		Carbon chip 47 kohm 1/16W	473J1/16
Q81	S87 2901 875	Transistor 2SJ278MY		R80,81		Carbon chip 10 kohm 1/16W	103J1/16
Q82	S87 2901 765	Transistor 2SK1764KY		R82,83		Carbon chip 47 kohm 1/16W	473J1/16
QUE	307 2301 703	Hansistor Zorti O4tti		R84,85		Carbon chip 10 kohm 1/16W	103J1/16
D1	S87 1998 862	Diode 1SS355		R86		Carbon chip 0 ohm 1/16W	000J1/16
D81	9R5 0000 199	Diode EC10QS06		R88-90		Carbon chip 10 kohm 1/16W	103J1/16
D83	9R5 0000 199	Diode EC10QS06		R95,96		Carbon chip 0 ohm 1/16W	000J1/16
D00	0110 0000 100	Diode Ediodeco		R99		Carbon chip 390 ohm 1/16W	391J1/16
D100,101	S87 1998 862	Diode 1SS355		, ,			
D100,101	307 1330 002	Diode 100000		R100		Carbon chip 47 kohm 1/16W	473J1/16
				R101~104		Carbon chip 47 kohm 1/16W	473J1/16
RESISTO	RS GROUP			R105		Carbon chip 100 kohm 1/16W	104J1/16
R1		Carbon chip 0 ohm 1/16W	000J1/16	R106		Carbon chip 1 kohm 1/16W	102J1/16
R3		Carbon chip 1 kohm 1/16W	102J1/16	R107		Carbon chip 10 kohm 1/16W	103J1/16
R4		Carbon chip 10 kohm 1/16W	103J1/16	R109,110		Carbon chip 10 kohm 1/16W	103J1/16
R5		Carbon chip 4.7 kohm 1/16W	472J1/16	R120		Carbon chip 47 kohm 1/16W	473J1/16
R6		Carbon chip 3.3 Mohm 1/16W	335J1/16	R121		Carbon chip 47 kohm 1/16W	473J1/16
R7		Carbon chip 470 kohm 1/16W	474J1/16	R122		Carbon chip 1 kohm 1/16W	102J1/16
R9		Carbon chip 0 ohm 1/16W	000J1/16	R123~126		Carbon chip 47 kohm 1/16W	473J1/16
R10		Carbon chip 10 kohm 1/16W	103J1/16	R127~129		Carbon chip 47 kohm 1/16W	473J1/16
R11		Carbon chip 0 ohm 1/16W	000J1/16				
R12		Carbon chip 47 kohm 1/16W	473J1/16	R201		Carbon chip 0 ohm 1/16W	000J1/16
R13		Carbon chip 1 kohm 1/16W	102J1/16	R205		Carbon chip 0 ohm 1/16W	000J1/16
R15		Carbon chip 1 kohm 1/16W	102J1/16	R214		Carbon chip 0 ohm 1/16W	000J1/16
R17		Carbon chip 470 kohm 1/16W	474J1/16	1			
R20		Carbon chip 100 ohm 1/16W	101J1/16	R502		Carbon chip 0 ohm 1/16W	000J1/16
R21		Carbon chip 100 kohm 1/16W	104J1/16	R504		Carbon chip 0 ohm 1/16W	000J1/16
R23~25		Carbon chip 100 ohm 1/16W	101J1/16	,1004		Carbon only o only 1/1011	3333 3
R31,32		Carbon chip 10 kohm 1/16W	103J1/16	R776		Carbon chip 0 ohm 1/16W	000J1/16
R33		Carbon chip 3.3 kohm 1/16W	332J1/16			Sandon only of thirt is 1044	3000
R34		Carbon chip 1 kohm 1/16W	102J1/16				
R35		Carbon chip 3.3 kohm 1/16W	332J1/16	1 [1

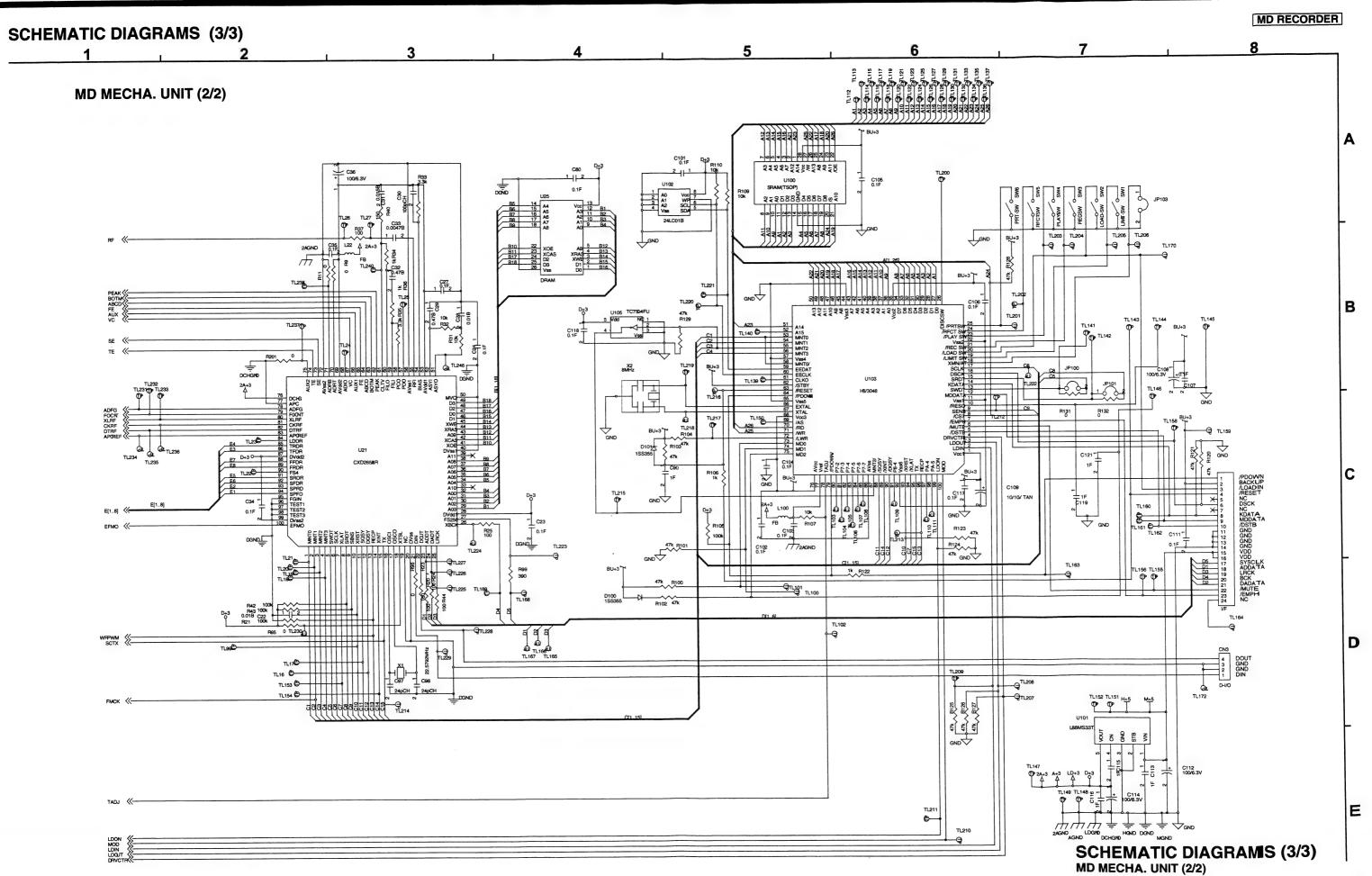
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	
CAPACIT	ORS GROUI	P		C111		Ceramic chip 0.1 μF/25V	104Z25F	
 D1		Tantalum 10 μF/10V	TAJA106M010	C112		Electrolytic 100 μF/6.3V	UWX0J101MCR	11
C2		Ceramic chip 0.1 μF/25V	104Z25F	C113		Ceramic chip 1 μF/10V	105Z10F	
C3,4		Tantalum 10 μF/10V	TAJA106M010	C114	•	Electrolytic 100 μF/6.3V	UWX0J101MCR	{ 1
06,4 05	!	Ceramic chip 0.01 µF/50V	103K50B	C115,116		Ceramic chip 1 µF/10V	105Z10F	
D6		Ceramic chip 1000 pF/50V	102J50B	C117,118		Ceramic chip 0.1 µF/25V	104Z25F	
C7,8		Ceramic chip 0.1 µF/25V	104Z25F	C119		Ceramic chip 1 µF/10V	105Z10F	
57,8 09		Ceramic chip 0.022 µF/25V	223K25B	C121		Ceramic chip 1 µF/10V	105Z10F	
C11		Ceramic chip 0.068 µF/16V	683K16B					
C12		Ceramic chip 4700 pF/50V	472J50B	C200		Electrolytic 22 µF/6.3V	UWX0J220MCF	₹1
D13		Ceramic chip 1 µF/16V	105K16B(2125)	C201~203		Ceramic chip 0.1 μF/25V	104Z25F	
		Ceramic chip 0.22 μF/10V	224K10B					
C15			223K25B					_
C16		Ceramic chip 0.022 µF/25V		OTHER P	ARTS GROU	Р		Q
C17		Ceramic chip 0.1µF/16V	104K16B	CN1	9R5 0000 200	22FLZ-SM1 connector	22FLZ-SM1	
C19		Tantalum 10 μF/10V	TAJA106M010	CN2	9R5 0000 188	24FMN-SM connector	24FMN-SM	'
C22		Ceramic chip 0.01 µF/50V	103K50B	CN3	9R5 0000 189	S 4B-ZR-SM connector	S 4B-ZR-SM	
C23,24		Ceramic chip 0.1 μF/25V	104Z25F					
227		Ceramic chip 0.1 μF/25V	104Z25F	L1-3	9R5 00000203	Ferrite bead	N2012Z102T	
228		Ceramic chip 0.01 μF/50V	103K50B	L6,7	9R5 00000203	Ferrite bead	N2012Z102T	
29		Ceramic chip 0.47 μF/16V	474K16B(2125)	L22	9R5 00000203	Ferrite bead	N2012Z102T	
30		Ceramic chip 100 pF/50V	101J50CH	L51,52	9R5 0000 146	Inductor	LQH1C100K	
31		Ceramic chip 0.015 µF/25V	153K25B	L53,54	9R5 0000 147	Inductor	LQH4N101K	
32		Ceramic chip 0.47 µF/16V	474K16B(2125)	L61,62	9R5 00000203	Ferrite bead	N2012Z102T	
233		Ceramic chip 4700 pF/50V	472J50B	L100	9R5 00000203		N2012Z102T	
C34		Ceramic chip 0.1 µF/25V	104Z25F					
C35		Ceramic chip 0.1 μF/25V	104Z25F	SW1	9R5 0000 183	Switch	SPVF230100	
36		Electrolytic 100 µF/6.3V	UWX0J101MCR1	SW2	9R5 0000 184	Switch	SPPB620100	
C41		Ceramic chip 0.1 μF/25V	104Z25F	SW3,4	9R5 0000 155	Switch	SPVF11006A	
C51		Electrolytic 100 µF/6.3V	UWX0J101MCR1	SW5,6	9R5 0000 185	Switch	SPPB530601	
C52	,	Ceramic chip 0.1 µF/25V	104Z25F	0415,0	3110 0000 100	CWILOTT		
C53		Ceramic chip 0.01 µF/50V	103K50B	X1	9R5 0000 207	Crystal (22.5792MHz)	SMD-49 22.5792MHz	,
C56,57		Ceramic chip 0.1 µF/25V	104Z25F	X2	9R5 0000 187	,	PBRC8.00BR-A	1
C58		Ceramic chip 6800 pF/50V	682J50B	^2	900 0000 107	Ceramic resonator (0.00Wi 12)	DIIOO.OODIIA	
260,61		Electrolytic 10 µF/10V	UWP1A100MCR1					
C62		Tantalum 10 µF/10V	TCFGA1A106M					
C63,64		Ceramic chip 0.01 µF/50V	103K50B					
267,68		Ceramic chip 0.1 µF/25V	104Z25F	il				
269		Tantalum 10 μF/10V	TAJA106M010					
C80		Ceramic chip 0.1 µF/25V	104Z25F					
C81		Electrolytic 100 μF/6.3V	UWX0J101MCR1					
C82,83		Ceramic chip 0.1 µF/25V	104Z25F					
D84		Electrolytic 22 µF/8V	ECGC0KB220R					
C85		Ceramic chip 1000 pF/500V	102K500B(3216)					
C88		Ceramic chip 0.01 µF/50V	103K50B					
C89		Ceramic chip 0.033 µF/16V	333K16B					
C90		Ceramic chip 1 µF/10V	105Z10F					
C90 C97,98		Ceramic chip 24 pF/50V	240J50CH					-
,								
C101~105		Ceramic chip 0.1 fµF/25V	104Z25F	11				
C106,107		Ceramic chip 0.1 µF/25V	104Z25F					
C108		Electrolytic 100 µF/6.3V	UWX0J101MCR1					
C109		Tantalum 10 μF/10V	TAJA106M010	1	1			

OTL136

FOIL SIDE

_ 03



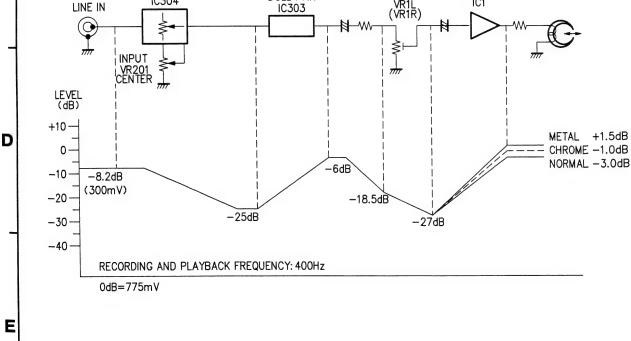


D.E100

MD RECORDER

MEMO:

ERASE HERD

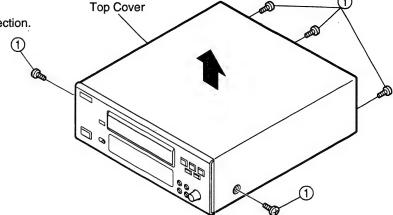


DISASSEMBLY

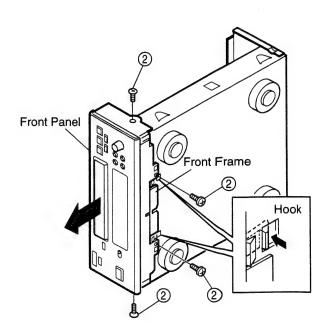
(Follow the procedure below in reverse order when reassembling)

1. Top Cover & Front Panel

- (1) Remove 5 screws (1) fixing the Top Cover.
- (2) Detach the Top Cover as shown in the arrow direction.



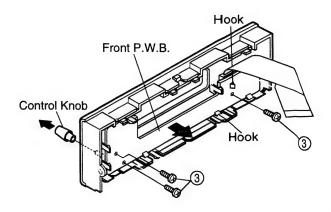
- (3) Remove 4 screws (2) on the bottom and both sides.
- (4) Disconnect 28P FPC and 3P Connector Cord from their connector bases.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

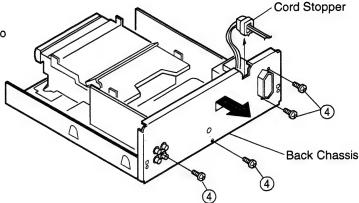
FRONT P.W.B.

- (1) Pull out the Control Knob to the arrow direction, and remove 3 screws 3.
- (2) Detach the Front P.W.B. with releasing 5 Hooks.



3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 4 screws (4), and detach the Back Chassis to the arrow direction.



MICOM P.W.B.

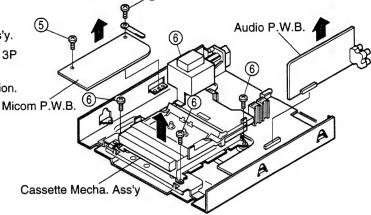
(3) Remove 2 screws (5), and detach the Micom P.W.B. to the arrow direction.

AUDIO P.W.B.

(4) Detach the Audio P.W.B. by disconnecting from its connector as shown in the arrow direction.

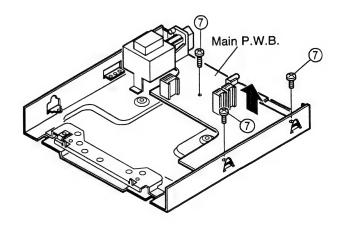
4. Cassette Mecha. Ass'y

- (1) Remove 4 screws (6) fixing the Cassette Mecha. Ass'y.
- (2) Disconnect 2P Shield Connector Cord and 5P, 13P Connector Cord from their connector bases.
- (3) Detach the Cassette Mecha. Ass'y to the arrow direction.



MAIN P.W.B.

(4) Remove 3 screws (7), and detach the Main P.W.B. to the arrow direction.



ADJUSTMENTS

Adjusting and Checking the Mechanism Section

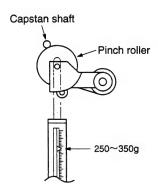
1. Replacement of the pinch roller

Before replacing the pinch roller, clean the tape contact surface of the pinch roller and the tape contact surface of the capstan shaft. After replacement, run a C-90 tape without a pad and check for the presence of tape curl at the tape guide portion of the head.

2. Checking the pinch roller pressure

Set to the playback condition and hook a bar-type spring scale to the bracket above the center line of the pinch roller. Pull the pinch roller away from the capstan shaft, then allow the pinch roller to come into contact with the capstan shaft and check that the reading of the bar-type spring scale is between 250 g and 350 g when the pinch roller starts to rotate.

Replace the pinch roller when the value falls outside of the specified range.



3. Replacement of the recording/playback head assembly

Perform this procedure after removing the front panel.

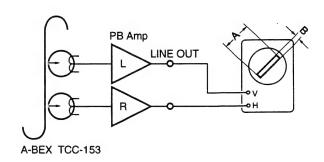
- 3-1 Removal of the head assembly
- (1) Remove the 2 head base fastening screws.
- (2) Remove the head base from the reed holder and the wire connector.
- 3-2 Mounting the recording/playback head assembly Perform by following the steps of Section 3-1 Removal of the head assembly in reverse.

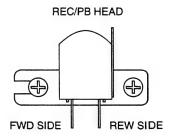
4. Adjustment of the recording/playback head

Azimuth adjustment

Load side A of the A-BEX TCC-153 test tape facing forward, and adjust.

- (1) Play in the FWD direction and turn the azimuth adjustment nut for the FWD side so that the Lissajous¢s figure becomes maximum at (A) and minimum at (B).
- (2) Play in the REW direction and turn the azimuth adjustment nut for the REW side as adjusting the FWD side method.
- (3) Adjust (1) and (2) again.
- (4) Apply screw lock to the adjustment locations.





5. Checking the winding torque

Load a cassette type torque meter (Sony TW2111A at the FWD side) and check that the reading of the torque meter during playback is 30 to 70 g-cm at the center value. When outside of the specified value range, check the voltage of the reel motor (approx. 4 V). When the voltage value is low, the torque is weak, and when when high, the torque is strong.

6. Checking the back tension torque at the time of recording and playback

Load a cassette type torque meter (Sony TW2111A at the FWD side) and check that the reading of the torque meter during playback is 1.5 to 6 g-cm and that there is no unevenness.

7. Checking the FF and REW torque

Load a cassette type torque meter (Sony TW2231) and check that the value indicated by the torque meter for winding and rewinding is between 70 and 150 g-cm.

8. Checking the FF and REW time

Load a DENON HD-X/60 cassette tape, and check that the time for FF and REW is below 120 seconds. When outside of the specified range, check Steps 5 and 6.

9. Checking the erroneous erasure prevention, and the metal and chrome switch operations

Check that detection lever is operating the switch properly depending upon the presence or absence of a hole.

Adjusting and Checking the Electrical Section

Measuring instruments needed for the adjustments

- (1) Low frequency oscillator
- (2) Variable resistance attenuator
- (3) Electronic voltmeter
- (4) Oscilloscope
- (5) Frequency counter
- (6) Adjustment screwdriver
- (7) 4-sided adjustment rod for trap coil adjustments
- (8) Test tapes

(Sony TY-224)

(A-BEX TCC-153, TCC-130, TCC-262B/162B)

(DENON HD-X/60)

(9) Mirror cassette for the transport (A-BEX TCC-902)

Adjustment precaution

- (1) Before adjustments, use gauze or a swab moistened with alcohol to wipe the surface of the heads, the capstan shaft, and the pinch roller.
- (2) Demagnetize the record/playback head and the erase head with a head eraser.
- (3) Completely demagnetize the driver to be used for the adjustments.
- (4) Unless otherwise specified, set the various operation controls as indicated below.

REC level: Center Dolby NR switch: Off

FWD SIDE

1. Tape transport check

Load the mirror cassette for the transport, and illuminate the area around the fixed guide of the record/playback head with a lamp and observe.

Check that the tape edge is not hitting the tape guide portion.

Note that the tape transport is the greatest factor affecting the performance of the cassette deck. Never move the inspection locations without good reason.

For information about replacement and adjustment of the record/playback head, see the section 2Adjustment and checking of the mechanism2.

2. Azimuth adjustment

A-BEX TCC-153

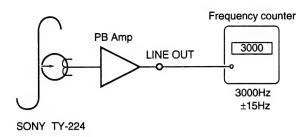
- 2-1 After making the tape transport check, load the test tape (A-BEX TCC-153).
- 2-2 Play back the test tape and turn the azimuth adjustment nut so that the Lissajous¢s figure becomes maximum at (A) and minimum at (B).

LINE OUT

PB Amp

3. Tape speed check and adjustment

- 3-1 Connect the frequency counter to the LINE OUT pin and load the test tape (Sony TY-224).
- 3-2 Playback a test tape. At about halfway through the tape, where the tape transport is stable, confirm that the frequency counter will have a reading within the range of 3,000 Hz ±15 Hz.



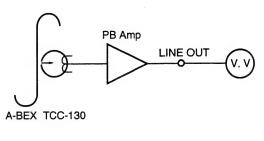
4. Adjustment of the playback system

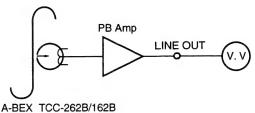
4-1 Playback level

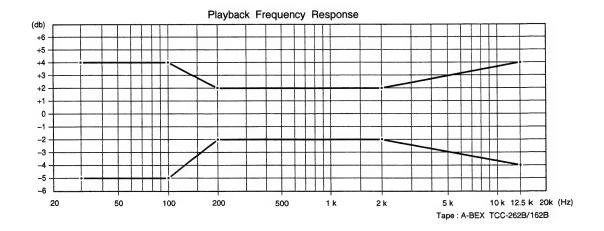
Play back the test tape for the Dolby standard level (A-BEX TCC-130), and adjust VR301L (Left channel) and VR301R (right channel) so that the level of the LINE OUT pin becomes –5.7 dBm (400 mV). (Load resistance of 47 kohm)

- 4-2 Checking the playback frequency respones Play back the test tape (A-BEX TCC-262B/162B), and check that the frequency response satisfies the standard.
- NOTE After making the azimuth adjustment with the 8 kHz at the start of the A-BEX TCC-262B test tape, perform check of the frequency respones.

 Also, after the check make an azimuth adjustment again with A-BEX TCC-153, then apply screw lock.

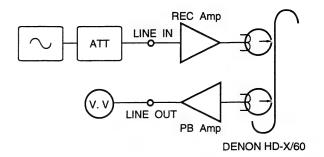


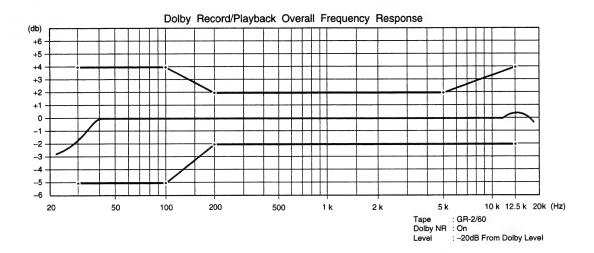




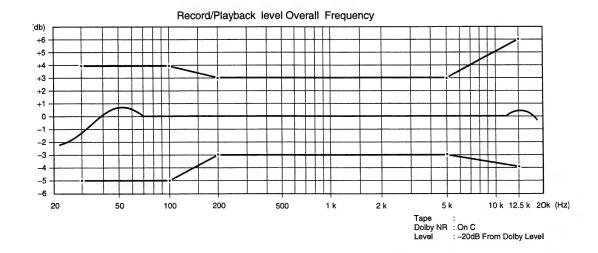
5. Adjustment of the recording system

- 5-1 Adjustment of the recording and playback overall frequency respons
- (1) Load the DENON HD-X/60 test tape, record a signal of-20 dBm (30mV) 1 kHz input level, and play back.
- (2) Set the input signal to 10 kHz, record, and play back. Adjust VR2L (left channel) and VR2R (right channel) so that the response specifications of the diagram below are satisfied with respect to the 1 kHz output level.





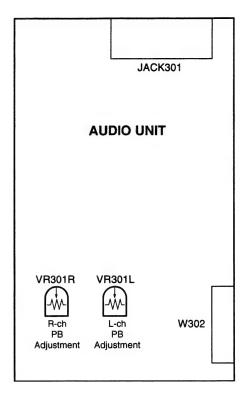
- 5-2 Adjustment of the recording/playback level
- (1) Load the DENON HD-X/60 test tape, record a signal of 1 kHz (–20 dBm), and play back.
- (2) Adjust VR1L (left channel) and VR1R (right channel) so that the output of the LINE OUT pin becomes the same as the output at the time of the recording monitor.
- 5-3 Checking the Dolby C recording and playback overall frequency response.
- (1) Set the Dolby NR switch to the "C" positions.
- (2) Use the DENON HD-X/60 test tape to record and play back according to the outline of Section 5-1, then check that the response specifications have been satisfied.



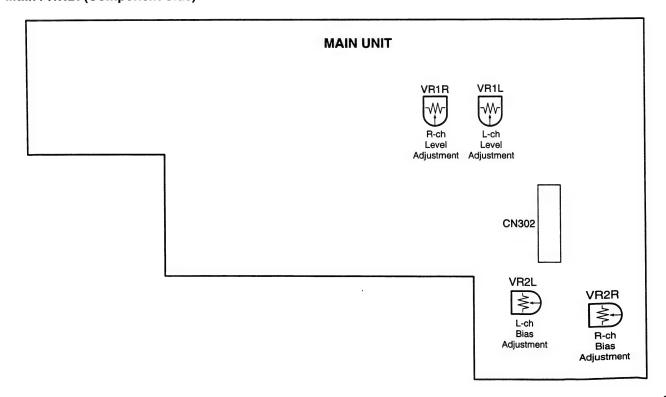
100

Adjustment VR Locations

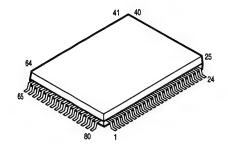
Audio P.W.B. (Component Side)

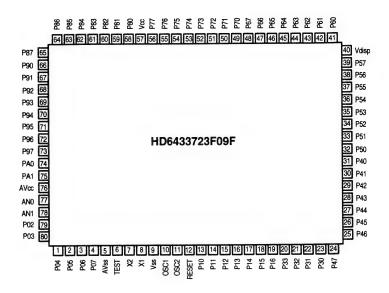


Main P.W.B. (Component Side)



SEMICONDUCTORS HD6433723F09F (IC102)



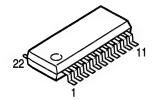


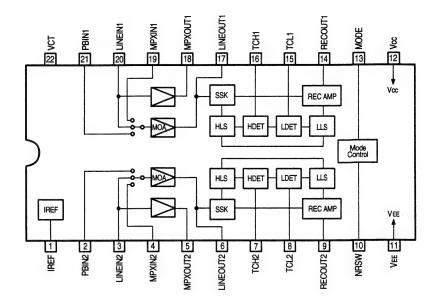
● HD6433723F09F Terminal Function

Pin	Name	1/0	PULL U/D	ACT	Symbol	Function
No.			1022072	,		N
1	P04					Not Used
2	P05	1				Not Used
3	P06					Not Used
4	P07			_		Not Used
5	AVss	1			AVSS	A/D GND
6	TEST				TEST	GND
7	X2	0			X2	Not Used
8	X1	1		_	X1	+5V
9	Vss				Vss	GND
10	OSC1	1		-	OSC1	System OSC input terminal (4.19 MHz)
11	OSC2	0		_	OSC2	System OSC output terminal (4.19 MHz)
12	RESET	I		L	RESET	System reset input signal, L: Reset
13	P10			_		Not Used
14	P11	1		Н	OPEN SW	When switch open: H
15	P12	T	_	Н	CLOSE SW	When switch close: H
16	P13	0	_	Н	TARY M/C IN	When tray loading-in: H
17	P14	0	_	Н	TRAY M/C OUT	When tray loading-out: H
18	P15	_				Not Used
19	P16		_			Not Used
20	P33	T	P/D GND	Н	KR4	Key read out signal 4
21	P32	1	P/D GND	Н	KR3	Key read out signal 3
22	P31	1	P/D GND	Н	KR2	Key read out signal 2
23	P30		P/D GND	Н	KR1	Key read out signal 1
24	P47	0	P/D GND	Н	KS4	Key scan signal 4
25	P46	0	P/D GND	Н	KS3	Key scan signal 3
26	P45	0	P/D GND	Н	KS2	Key scan signal 2
27	P44	ō	P/D GND	Н	KS1	Key scan signal 1
28	P43	0	_	H		Not Used
29	P42	0		Н		Not Used
30	P41	0		Н		Not Used
31	P40	0	P/D Vdisp		S17	FLT display segment terminal 17
32	P50	0	P/D Vdisp		S16	FLT display segment terminal 16
33	P51	0	P/D Vdisp		S15	FLT display segment terminal 15

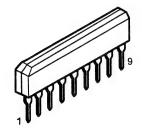
Pin No.	Name	I/O	PULL U/D	ACT	Symbol	Function
34	P52	0	P/D Vdisp	Н	S14	FLT display segment terminal 14
35	P53	0	P/D Vdisp	Н	S13	FLT display segment terminal 13
36	P54	0	P/D Vdisp	Н	S12	FLT display segment terminal 12
37	P55	0	P/D Vdisp	Н	S11	FLT display segment terminal 11
38	P56	0	P/D Vdisp	Н	S10	FLT display segment terminal 10
39	P57	0	P/D Vdisp	Н	S9	FLT display segment terminal 9
40	Vdisp	ı	_	_	Vdisp	Power for FLT
41	P60	0	P/D Vdisp	Н	S8	FLT display segment terminal 8
42	P61	0	P/D Vdisp	Н	S7	FLT display segment terminal 7
43	P62	0	P/D Vdisp	Н	S6	FLT display segment terminal 6
44	P63	0	P/D Vdisp	Н	S5	FLT display segment terminal 5
45	P64	0	P/D Vdisp	Н	S4	FLT display segment terminal 4
46	P65	0	P/D Vdisp	Н	S3	FLT display segment terminal 3
47	P66	0	P/D Vdisp	Н	S2	FLT display segment terminal 2
48	P67	0	P/D Vdisp	Н	S1	FLT display segment terminal 1
49	P70	0	P/D Vdisp	Н	G5	FLT display grid terminal 5
50	P71	0	P/D Vdisp	Н	G4	FLT display grid terminal 4
51	P72	0	P/D Vdisp	Н	G3	FLT display grid terminal 3
52	P73	0	P/D Vdisp	Н	G2	FLT display grid terminal 2
53	P74	0	P/D Vdisp	Н	G1	FLT display grid terminal 1
54	P75	_				Not Used
55	P76	_				Not Used
56	P77	0	P/D GND	L	LINE MUTE	L: Line mute on, H: Signal
57	Vcc	ı			Vcc	System power +5V
58	P80	ī		L	POWER OFF	Power off detect signal, L: OFF
59	P81	0		H/L	DOLBY B/C	H: Dolby B, L: Dolby C
60	P82	0	_	L/H	DOLBY REC	L: Dolby REC, H: Dolby PB
61	P83	0		L/H	DOLBY ON/OFF	L: Dolby ON, H: Dolby OFF
62	P84	П	_	L	INH-R	L: REV REC inhibited, H: REV REC
63	P85	ı	_	Н	MODE SW	H: Head up, L: Head down
64	P86	0		Н	СРМ	H: Capstan motor on
65	P87	ı	_	Н	HALF SW	H: Tape detected, L: Tape non-detect
66	P90	0	_	Н	SOL	H: Solenoid on
67	P91	0	_	L	SCK	Serial comm. Clock signal (62.5 μs)
68	P92	ı	_	L	SI	Serial data input signal
69	P93	0		L	SO	Serial data output signal
70	P94	1		H/L	HALL OUT	Reel sensor detect input signal
71	P95	1		L	INH-F	L: FWD REC inhibited, H: FWD REC
72	P96	0		Н	REC-MUTE	H: REC mute, L: REC
73	P97	0		H/L	R/P HEAD SW	H: REC/PAUSE/MUTE, L: Others
74	PA0	0	_	Н	BIAS	L: In recording, H: Others
75	PA1	_		_		Not Used
76	AVCC		_	_	AVcc	+5V
77	AN0	T	_	_	LEVEL "R"	Rch level input signal
78	AN1	ı		_	LEVEL "L"	Lch level input signal
79	P02	ī				Not Used
80	P03	ı	_	_		Not Used

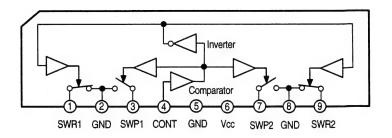
CXA1561M (IC303)



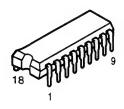


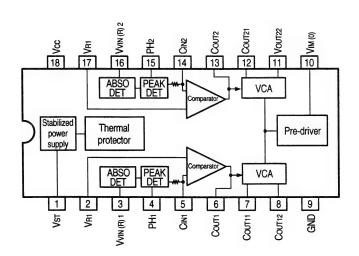
μPC1330HA (IC301)



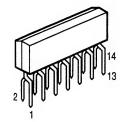


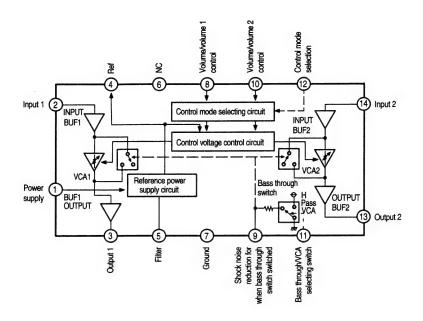
μPC1297CA (IC305)



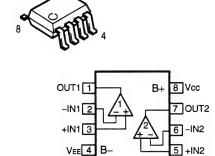


M51132L (IC304)

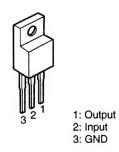




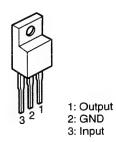
NJM4565MD (IC1,2,302)



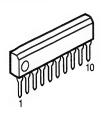
NJM7908FA (IC5)

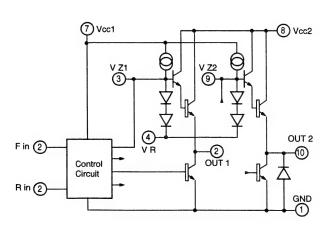


NJM7808FA (IC4) NJM7812 (IC6)



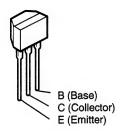
BA6209N (IC101)



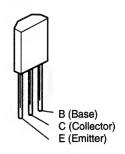


Transistors

2SC1740S



KTA1273 KTC3205

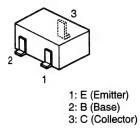


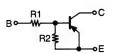
2SA1037K 2SC2412K



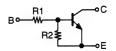
1: E (Emitter) 2: B (Base) 3: C (Collector)

DTA144EK DTC114EK DTC124EK DTC144EK **DTC343TK**





	R1	R2
DTA144EK	47kohm	47kohm



	R1	R2
DTC114EK		
DTC124EK	22kohm	22kohm
DTC144EK	47kohm	47kohm
DTC343TK	4.7kohm	_

DIODES

188133



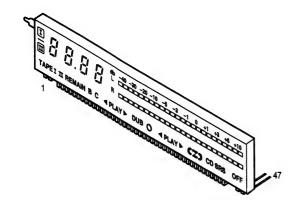
1N4004A



MTZJ5.6B MTZJ6.2B MTZJ9.1B MTZJ20B



• FL DISPLAY BJ-239GK (FLT201)



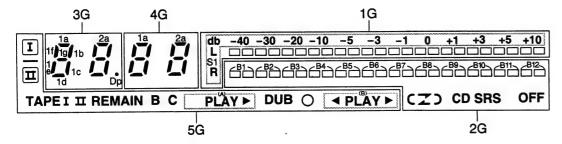
Pin Connection

-	Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Connector	F1	F1	NP	NP	1G	2G	3G	4G	5G	NC														

																							47
Connector	NC	NC	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2

NOTE 1) F1, F2 · · · · · Filament 2) NP · · · · · · No Pin 3) NC · · · · · No Connection 4) 1G∼5G · · · · Grid

Grid Partition



Anode Connection

	5G	4G	3G	2G	1G
P1	TAPE	1a	1a	B1	B1
P2	I	1b	1b	B2	B2
P3	п	1c	1c	В3	B3
P4	REMAIN	1d	1d	B4	B4
P5	В	1e	1e	B5	B5
P6	С	1f	1f	В6	B6
P7	◄ (A)	1g	1g	B7	B7
P8	PLAY (A)	2a	2a	B8	B8
P9	► (A)	1b	1b	B9	B9
P10	DUB	2c	2c	B10	B10
P11	0	2d	2d	B11	B11
P12	◄ (B)	2e	2e	B12	B12
P13	PLAY (B)	2f	2f	C	S1
P14	▶ (B)	2g	2g	Z	_
P15	I	_	Dp)	_
P16		_	-	CD SRS	_
P17	П	_	-	OFF	

B

CASSETTE DECK

MAIN 0 CN2 AUDIO J310 [J315] ±±1 → C306L 1C304 C3121 1 J313 C311L -[†]|2 → C313 |R316L C311R MICON 0 0 1 R123 C310L C310L C310L C309L 13 .*₩ .C314 CN104 R155 1 R156 2 R320 C107 D106 C JK301 W202 3 1 € 05 -0 0→ SW206 SW207 →0 0→ R253 •000 SW20# 0 0 F2 06 SW208 SW212 8210 \$W281 ₩201 1019 -0 0-SW211 FRONT 0 1 FLT201

FOIL SIDE

-

D

D-F100

CASSETTE DECK

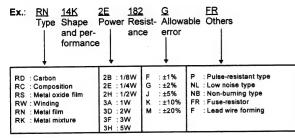
NOTE FOR PARTS LIST

- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

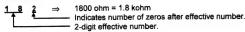
Parts marked with this symbol \triangle have critical characteristics.

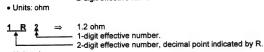
Use ONLY replacement parts recommended by the manufacturer.

Resistors

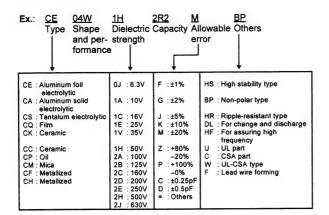


* Resistance





Capacitors



* Capacity (electrolyte only)

2 2 2 ⇒ 2200µF Indicates number of zeros after effective number. 2-digit effective number.

⇒ 2.2μr
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

* Capacity (except electrolyte) 2 2 2 ⇒ 2200pF=0.0022µF

— (More than 2)—Indicates number of zeros after effective number.

2-digit effective number.

• Units: μF.

2-digit effective number.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

110

PARTS LIST OF P.W.B. UNIT MAIN P.W.B. UNIT ASS'Y

Dof No	Port No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
Ref. No.	Part No.		nelliarks	ZD3~5	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
			1101455500040	ZD3~3 ZD6	960 0033 704	Zener diode MTZJ20B	K06020R044520
IC1,2	928 0035 809	IC NJM4565MD	J121456500040	250	000 0014 000	25/10/ 4/000 111/20202	
IC3	263 0354 001	IC UPC1297CA	J081129700000	ZD101	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
IC4	263 0502 002	IC NJM7808FA	J126780800030	ZD102	LA2 100U 125	Zener diode MTZJ6.2B	K06006R244520
IC5	263 0503 001	IC NJM7908FA	J126790800020	25102	D 12 1000 120	25/10/ 4/545 11: 255/25	
IC6	263 0516 001	IC NJM7812	J126781200010				
10101	000 0400 000	IO DACOCONI	J127620900010	RESISTO	RS GROUP		
IC101	960 0100 806	IC BA6209N	J020643372390	R1L,1R		Carbon chip 10 kohm 1/10W	C200010360200
IC102	960 0122 703	IC HD6433723F09F	3020043372390	R2L,2R		Carbon chip 56 kohm 1/10W	C200056360200
10004	000 0000 001	IC 11DC1220HA	J040133000010	R3L,3R		Carbon chip 5.6 kohm 1/10W	C200056260200
IC301	263 0590 001	IC UPC1330HA IC NJM4565MD	J121456500040	R4L,4R		Carbon chip 560 ohm 1/10W	C200056160200
IC302	928 0035 809	IC CXA1561M	J081156100010	R5L,5R		Carbon chip 6.2 kohm 1/10W	C200062260200
IC303	960 0124 400	IC M51132L	J123511320000	R7L,7R		Carbon chip 22 kohm 1/10W	C200022360200
IC304	960 0014 109	IC MSTI3ZL	3123511320000	R8L,8R		Carbon chip 15 kohm 1/10W	C200015360200
001.00	200 0000 000	Transister DTC114TV	IE220114T0210	R9L,9R		Carbon chip 22 kohm 1/10W	C200022360200
Q2L,2R	269 0088 906	Transistor DTC114TK Transistor DTC114TK	J5220114T0210 J5220114T0210	R10L,10R		Carbon chip 15 kohm 1/10W	C200015360200
Q3L,3R	269 0088 906		J522011410210 J5220343T0210	R10L,10R		Electrolytic 0.33 μF/50V	D040R33087070
Q4L,4R	269 0104 903	Transistor DTC343TK Transistor DTC114EK	J522034310210 J5220114E0210	R11L,11R		Carbon chip 10 kohm 1/10W	C200010360200
Q5,6	269 0082 902			R12L,12R		Carbon chip 6.8 kohm 1/10W	C200068260200
Q7	269 0055 900	Transistor DTA144EK	J5200144E0210	R13L,13R		Carbon film 150 kohm 1/5W	C00001546P520
Q8	269 0054 901	Transistor DTC144EK	J5220144E0210	R14L,14R		Carbon chip 22 kohm 1/10W	C200022360200
Q9	269 0055 900	Transistor DTA144EK	J5200144E0210	R15		Carbon chip 1.5 kohm 1/10W	C200015260200
Q10,11	269 0054 901	Transistor DTC144EK	J5220144E0210	R16		Carbon chip 1.2 kohm 1/10W	C200012260200
Q12	269 0055 900	Transistor DTA144EK	J5200144E0210	R17		Carbon chip 3.3 kohm 1/10W	C200033260200
Q13	269 0054 901	Transistor DTC144EK	J5220144E0210	R18		Carbon chip 47 kohm 1/10W	C200047360200
Q14	269 0055 900	Transistor DTA144EK	J5200144E0210	R19		Carbon chip 10 kohm 1/10W	C200010360200
Q15,16	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R20		Carbon chip 100 kohm 1/10W	C200010460200
Q17,18	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	R21		Carbon chip 22 kohm 1/10W	C200022360200
Q19	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R22,23		Carbon chip 10 kohm 1/10W	C200010360200
Q20	960 0010 705	Transistor KTC3205Y	J5023205Y0020	R24L,24R		Carbon film 1 kohm 1/5W	C00001026P520
Q22	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R25L,25R		Carbon chip 47 kohm 1/10W	C200047360200
Q23,24	273 0303 907	Transistor 2SC1740SR	J5021740S0010	R26L,26R		Carbon chip 27 kohm 1/10W	C200027360200
Q25	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R27L,27R		Carbon chip 15 kohm 1/10W	C200015360200
Q26~28	269 0054 901	Transistor DTC144EK	J5220144E0210	R28L,28R		Carbon chip 100 ohm 1/10W	C200010160200
		T 10714070V	15004070\/0050	R29L,29R		Carbon chip 100 kohm 1/10W	C200010460200
Q101,102	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R30		Carbon chip 47 ohm 1/10W	C200047060200
Q103,104	269 0102 905	Transistor DTC124EK	J5220124E0210	R31,32		Carbon chip 15 kohm 1/10W	C200015360200
Q105	9L2 3256 91R	Transistor 2SC2412K(S)	J5222412K0210	R33,34		Metal film 22 ohm 1/4W	C060022063050
Q106	269 0102 905	Transistor DTC124EK	J5220124E0210	R35		Carbon chip 4.7 kohm 1/10W	C200047260200
Q107	269 0083 901	Transistor DTA144EK	J5200144E0210	R36~39		Carbon chip 10 kohm 1/10W	C200010360200
00041 0045	000 0404 000	Transister DT0040TV	IEOOOOAOTOOAO	R40,41		Carbon chip 22 kohm 1/10W	C200022360200
Q301L,301R	269 0104 903	Transistor DTC343TK	J5220343T0210	R42		Carbon chip 1 kohm 1/10W	C200010260200
Q302L,302R	269 0104 903	Transistor DTC343TK	J5220343T0210	R43		Carbon chip 100 ohm 1/10W	C200010160200
Q303L,303R	269 0104 903	Transistor DTC343TK	J5220343T0210	R44		Carbon chip 220 ohm 1/10W	C200022160200
DOL OF	070 0404 000	Diada 400400	K00004000500	R45,46		Carbon chip 10 kohm 1/10W	C200010360200
D3L,3R	276 0401 905	Diode 1SS133	K000013300520	R47		Carbon chip 47 kohm 1/10W	C200047360200
D4-14	276 0401 905	Diode 1SS133	K000013300520	R48		Carbon chip 100 ohm 1/10₩	C200010160200
D15~22	960 0117 608	Diode 1N4004A	K040400400520	R49		Carbon film 10 kohm 1/5W	C00001036P520
				R50		Carbon chip 4.7 kohm 1/10VV	C200047260200
D101~107	276 0401 905	Diode 1SS133	K000013300520	R51,52		Carbon chip 10 kohm 1/10W	C200010360200
			1400000	R53		Carbon chip 2.2 kohm 1/10√V	C200022260200
ZD1,2	960 0085 604	Zener diode MTZJ9.1B	K06009R144520	R54		Carbon chip 8.2 kohm 1/10VV	C200082260200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R55		Carbon chip 1 kohm 1/10W	C200010260200	R316L,316R		Carbon chip 7.5 kohm 1/10W	C200075260200
R56		Carbon chip 100 ohm 1/10W	C200010160200	R317L,317R		Carbon chip 24 kohm 1/10W	C200024360200
R58		Carbon chip 100 ohm 1/10W	C200010160200	R318		Carbon chip 47 kohm 1/10W	C200047360200
R59~61		Carbon chip 10 kohm 1/10W	C200010360200	R319,320		Carbon chip 39 kohm 1/10W	C200039360200
				R321L,321R		Carbon chip 75 kohm 1/10W	C200075360200
R101		Metal film 10 ohm 1/4W	C060010063050	R322L,322R		Carbon chip 470 ohm 1/10W	C200047160200
R102,103		Carbon chip 1 kohm 1/10W	C200010260200				
R104		Carbon chip 470 ohm 1/10W	C200047160200	VR1L,1R	960 0119 907	Semi fixed resistor 22 kohm	C544223015140
R105~109		Carbon chip 1 kohm 1/10W	C200010260200	VR2L,2R	960 0122 606	Semi fixed resistor 47 kohm	C544473015130
R112~118		Carbon film 1 kohm 1/5W	C00001026P520				
R122~127		Carbon chip 100 kohm 1/10W	C200010460200	VR101	960 0091 601	Semi fixed resistor 1 kohm	C544102015130
R128,129		Carbon chip 47 kohm 1/10W	C200047360200				
R130,131		Carbon chip 3.3 kohm 1/10W	C200033260200	VR201	960 0124 002	Variable resistor 100 kohm	C452111400420
R132		Carbon chip 100 kohm 1/10W	C200010460200				
R133		Carbon chip 10 kohm 1/10W	C200010360200	VR301L ,301R	960 0091 601	Semi fixed resistor 10 kohm	C544103015130]
R134		Carbon chip 5.6 kohm 1/10W	C200056260200				
R135,136		Carbon chip 100 kohm 1/10W	C200010460200				
R137~140		Carbon chip 47 kohm 1/10W	C200047360200	CAPACIT	ORS GROUP		
R141~144		Carbon chip 1 kohm 1/10W	C200010260200	C1L,1R		Electrolytic 10 μF/16V	D040100083050
R145~148		Carbon film 1 kohm 1/5W	C00001026P520	C2L,2R		Film 0.0039 μF/100V	D02039206C060
R149		Carbon chip 1 Mohm 1/10W	C200010560200	C6L,6R		Film 0.01 μF/100V	D02010306C060
R150		Carbon chip 100 kohm 1/10W	C200010460200	C7L,7R		Film 0.0047 μF/100V	D02047206C060
R151~153		Carbon chip 3.9 kohm 1/10W	C200039260200	C8L,8R		Electrolytic 1 μF/50V	D040010087050
R154		Carbon film 10 kohm 1/5W	C00001036P520	C9L,9R		Film 0.0018 μF/100V	D02018206C060
R155,156		Carbon chip 100 ohm 1/10W	C200010160200	C11L,11R		Film 0.0068 μF/100V	D02068206C060
H100,100		Carbon chip 100 ohin 1/1011	0200010100200	C12L,12R	960 9001 401	Film 300 pF/100V	D02130106C000
D201		Carbon chip 680 ohm 1/10W	C200068160200	C13L,13R		Ceramic chip 100 pF/50V	D010101167200
R201		Carbon chip 820 ohm 1/10W	C200082160200	C14		Ceramic 10 pF/50V	D001100067520
R202 R203		Carbon chip 1.5 kohm 1/10W	C200015260200	C15L,15R		Ceramic chip 820 pF/50V	D010821167200
R203		Carbon chip 2.2 kohm 1/10W	C200013260200	C16		Ceramic chip 0.047 µF/50V	D011473597200
		Carbon chip 4.7 kohm 1/10W	C200047260200	C17L,17R		Film 0.033 μF/100V	D02033306C060
R205		Carbon chip 680 ohm 1/10W	C200047200200 C200068160200	C18L,18R		Film 0.022 μF/100V	D02022306C060
R206		Carbon chip 820 ohm 1/10W	C200082160200	C19L,19R		Film 0.01 μF/100V	D02010306C060
R207		Carbon chip 1.5 kohm 1/10W	C200015260200	C20		Electrolytic 10 μF/25V	D040100084050
R208		Carbon chip 2.2 kohm 1/10W	C200013260200	C21		Electrolytic 22 μF/16V	D040220083070
R209			C200022260200	C22		Electrolytic 10 μF/25V	D040100084050
R210		Carbon chip 3.3 kohm 1/10W	G200033200200	C23		Electrolytic 1 μF/50V	D040010087050
Dood! 004D		Corbon obin 10 obm 1/10M	C200010060200	C24		Electrolytic 10 μF/16V	D042100083050
R301L,301R		Carbon chip 10 ohm 1/10W	C200010060200	C25		Electrolytic 2.2 µF/50V	D0402R2087250
R302		Carbon chip 1 kohm 1/10W Carbon chip 120 kohm 1/10W	C200010260200	C26L,26R		Electrolytic 2.2 µF/50V	D0402R2087250
R303L,303R				C27L,27R		Electrolytic 0.47 μF/50V	D040R47087050
R304L,304R		Carbon chip 270 ohm 1/10W	C200027160200	C28		Film 0.0082 μF/100V	D02082206C060
R305L,305R		Carbon chip 24 kohm 1/10W	C200024360200	C29		Film 0.0022 μF/100V	D02022206C060
R306L,306R		Carbon chip 560 kohm 1/10W	C200056460200	C30,31		Film 0.0033 μF/100V	D02033206C060
R307L,307R		Carbon chip 3.3 kohm 1/10W	C200033260200	C32		Film 0.015 μF/100V	D02015306C060
R308L,308R		Carbon chip 4.7 kohm 1/10W	C200047260200	C33		Electrolytic 220 µF/16V	D040221083090
R309		Carbon film 20 kohm 1/5W	C00002036P520	C34,35		Ceramic chip 0.001 µF/50V	D010102167200
R310L,310R		Carbon chip 5.6 kohm 1/10W	C200056260200	C36,37		Electrolytic 100 µF/25V	D040101084060
R311L,311R	I Validation of the Control	Carbon chip 2.4 kohm 1/10W	C200024260200	C38		Ceramic chip 0.047 µF/50V	D011473597200
R312L,312R		Carbon chip 47 kohm 1/10W	C200047360200	C39		Electrolytic 4.7 µF/50V	D0404R7087250
R313L,313R		Carbon chip 1.8 kohm 1/10W	C200018260200	C40,41		Ceramic 0.01 µF/50V	D004103277050
R314L,314R		Carbon chip 1 kohm 1/10W	C200010260200	C42,43		Electrolytic 10 μF/25V	D040100084050
R315L,315R		Carbon chip 10 kohm 1/10W	C200010360200	C44,45	254 4256 091		D040222084030

CASSETTE DECK

Ref. No.	Part No.	Part Name	Remarks	s	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C46		Ceramic chip 0.01 μF/50V	D01110359720	0	CN202	960 0124 905	3P connector base	L141521470310	1
C47		Electrolytic 10 µF/25V	D04010008405	0	CN301	960 0124 701	6P connector base	L101530140610	1
C48		Ceramic 0.01 μF/50V	D00410327705	0	CN302	960 0123 003	14P connector base	L101353361410	1
C49	254 4256 091	Electrolytic 2200 μF/25V	D04022208403	0					
C50		Electrolytic 10 µF/25V	D04010008405	0	ΔF1	960 0142 709	Fuse 250V 1A	G650102251160	1
C51		Electrolytic 47 µF/35V	D04047008510	0	ΔF2	960 0142 709	Fuse 250V 1A	G650102251160	1
C52	254 4261 044	Electrolytic 330 µF/50V	D04033108702	0				Asia Model only	
C53		Electrolytic 330 μF/25V	D040331084050	0					
C54		Electrolytic 10 µF/25V	D040100084050	0	FLT201	960 0044 001	FLD (BJ-239GK)	K530000280010	1
C55		Electrolytic 100 μF/16V	D04010108310						
C56		Ceramic 0.01 µF/50V	D004103277050	0	GND1	960 9006 600	GND terminal	3790040876010	1
C101		Ceramic 0.1 μF/50V	D006104597050		JACK1	960 0004 407	Mini jack	G401031102010	1
C102,103		Electrolytic 100 μF/16V	D04010108310	- 1	JACK301	960 0124 507	4P pin jack	G602040131030	1
C104,105		Ceramic chip 0.01 µF/50V	D011103597200	1	I shortest	333 3.2.33.			
C106	-	Electrolytic 2.2 µF/50V	D0402R208725	1	L1L,1R	960 0013 618	Inductor 1MH	D330180000000	2
C107,108		Electrolytic 1 µF/50V	D040010087080	1	212,111	000 0010 010	inductor river		
0107,100		Liconory no 1 pri 1001	204001000700		SW201~211	960 0069 206	Tact switch	G180215050010	11
C301		Ceramic chip 0.01 µF/50V	D011103597200)	SW212	960 0011 801	Slide switch	G060313012010	
C302L,302R		Ceramic chip 470 pF/50V	D010471167200	1	011212	000 0011 001	Sido Silicon		
C303L,303R		Electrolytic 47 µF/16V	D040470083080	1	T1L,1R	960 0013 605	Trap coil	D302126522400	2
C304L.304R		Film 0.0056 µF/100V	D02056206C06	1	T2L,2R	960 0013 702	MW RF osc. coil	D940524000000	
C305L,305R		Electrolytic 1 µF/50V	D040010087080		T3	960 0013 809	OSC bias trans.	E080516900000	
C306L,306R		Electrolytic 1 µF/50V	D040010087080	ł	T301L,301R	A TOTAL OF THE STATE OF	MPX filter	E401503000000	1
C307L,307R		Electrolytic 1 µF/50V	D040010087080	. 1	10012,00111	000 0120 007	The Action		
C308L,308R		Electrolytic 1 µF/50V	D040010087080	1	TP1	960 0123 207	3P connector base	L102526700300	1
C309L,309R		Film 0.1 µF/50V	D020104167060	į	TP301L,301R	960 0124 808	2P connector base	L102526700200	
C310L,310R		Film 0.068 μF/50V	D020683167060		11 0012,00111	0000121000	El comisciol bass		
C311L,311R		Electrolytic 1 µF/50V	D040010087080	1	W103	960 0122 800	8P connector cord	L000231080010	1
C312L,312R		Electrolytic 4.7 µF/16V	D0404R708305	1	W104	960 0122 907	13P connector cord	L000261130020	
C313		Electrolytic 22 µF/16V	D040220083110		W106	960 0123 100	2P connector base	L102526700200	1
C314		Electrolytic 1 µF/50V	D040010087070		W201	960 0124 206	28P FPC connector base	L130528072810	1
C315L,315R		Electrolytic 4.7 µF/16V	D0404R708305		W202	960 0124 109	3P connector cord	L024032507320	
C316L,316R		Ceramic chip 100 pF/50V	D01010116720		W302	960 0124 604	14P connector base	L101352371410	1
C317L,317R		Film 0.015 µF/100V	D02015306C06		1.552	000 0121 001	THE CONTROL PAGE		- management
					X101	399 0107 007	Ceramic 4.19MHz	E830419000060	1
OTHER P	ARTS GROU	P		Q'ty		960 0122 509	Heat sink	2120000818030) 2
.A1	960 0143 203	AC outlet	G435040110000	1		900 0122 309	Tieat Silik	for IC4,5	1 -
01.11104.0		we i				963 0019 501	Heat sink	2120020238030), 1
CLAMP1,2		Wire clamp	4330000120000	2				for IC6	
							Carbon chip 0 ohm 1/8₩	C200000061300	0 43
0114			1.400=00=0000			960 0005 804	Fuse holder	G645000050010	, 2
CN1	960 0123 207	3P connector base	L102526700300	1				for F1	
CN2	960 0118 908	2P connector base	L108039602010			960 0005 804	Fuse holder	G645000050010), 2
CN3	960 0123 304	2P connector base	L104353280200	1				for F2	
ONO	000 0400 004	00	Europe & U.K. Models					Asia Model only	/
CN3	960 0128 901	3P connector base	L108353280310 Asia Model	1	Δ	963 0027 700	Slide switch	G06004055001	
CN101	960 0123 508	5P connector base	L101530140510	1				Asia Model only	***
CN101	960 0123 605	13P connector base	L101530140310	1		960 0143 407	FL supporter	4070210016000	
CN102 CN104	960 0123 702	2P connector base	L102526700200			963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B1	0 3
CN201									
UNZU1	960 0123 809	28P FPC connector base	L130528062810	1					1

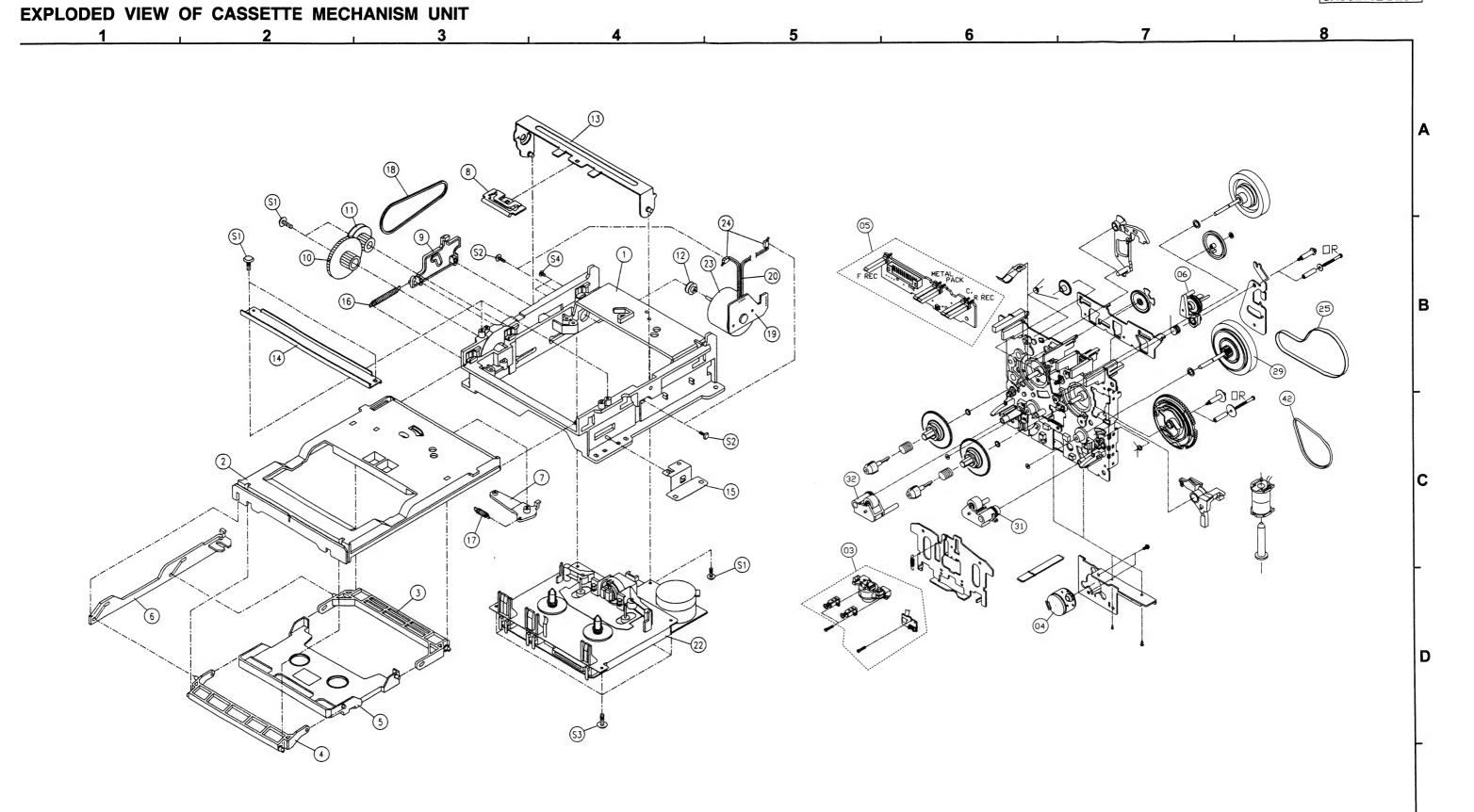
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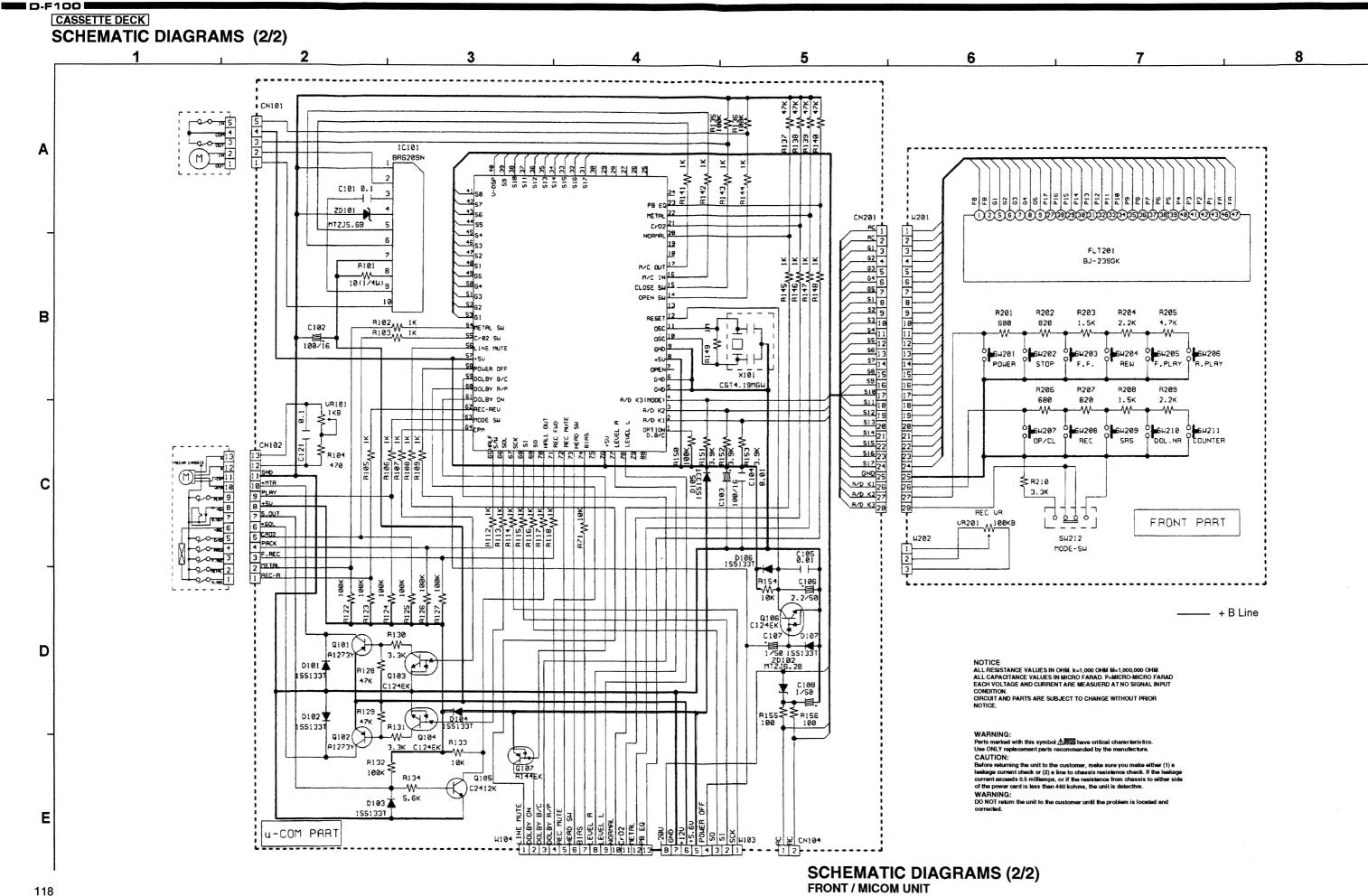
PARTS LIST OF EXPLODED VIEW

D (1)	David M	Dant Name	Damasta	014
Ref. No.	Part No.	Part Name	Remarks	Q'ty
-14	960 0138 205	Main P.W.B. unit ass'y	7025HC9804010	1
			Europe & U.K. Models	
-14	960 0122 415	Main P.W.B. unit ass'y	7025HC9804040	1
			Asia Model	
- 8	960 0123 906	Front P.W.B. unit	,	
4 15	960 0124 303	Audio P.W.B. unit		
L ₂₃	960 0123 401	Micom P.W.B. unit		
1	960 0115 707	DENON badge	5630210008000	1
2	960 0121 102	Front panel	3067210048010	1
3	960 0115 309	Display window	5077210043010	1
4	960 0121 801	Control knob	5087210021010	1
5	960 0121 209	Front frame	3217210021010	1
6	960 0121 306	Selector knob	5087210041010	1
9	960 0003 505	Foot cushion	4050020075010	4
10	960 0003 408	Foot	4007000061010	2
.11	960 0121 500	Main chassis	3200210076000	1
12	960 0115 008	Foot	4000210001000	2
13	960 0003 301	P.W.B. support	4070001601010	1
16	960 0121 429	Back chassis	3207210036010	1
			Europe & U.K. Models	
16	960 0121 416	Back chassis	3207210036110	1
			Asia Model	
17	963 0017 707	Cord stopper	4380040162010	1
A 18	960 0032 301	AC cord	L061000410010	1
∆ 21	960 0136 003	Power trans.	8200480044010	1
			Europe & U.K. Models	
∆ 21	960 0136 100	Power trans.	8200480044030	1
			Asia Model	
22	960 0125 001	Cassette mecha. ass'y	8158210020010	1
24	960 0121 607	Mecha. bracket	4010210046000	1
25	960 0121 704	Tray cover	4317210011010	1
26	960 0121 005	Top cover	3000210006100	1
27	_	Wire clamp	4330040213010	1
★ 28	960 0125 409	2P+6P shield cord	L000161080010	1
★ 29	960 0125 506	5P connector cord	L000171050010	1
★ 30	960 0125 603	13P connector cord	L000261130010	1
★ 31	960 0125 700		L301121280010	1
				<u></u>
SCREWS				
Α	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10	15
Α	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10,	2
			for slide switch	
			Asia Model only	
В	960 9008 006	Screw 3×8 CFTS(B)-B	B020030083F10	2
С	963 0018 104	Screw 3×17 CBTS(B)-Z	B020030171B10	1
D	960 9003 001	Screw 4×8 CBTS(S)-Z	B020740081B10	2
E	963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B10	11
			The state of the s	1

CASSETTE MECHANISM PARTS LIST (IDL-03B)

			D	1011
Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER	MECHA. SE	CTION		-
1	960 0140 002	Mecha. body	341021003100	1
2	960 0140 109	Loading tray	460021000100	1
3	960 0140 206	Back lever	253021002100	1
4	960 0140 303	Front lever	253021001100	1
5	960 0140 400	CST lifter	267021000100	1
6	960 0140 507	Lift slider	264021001301	1
7	960 0140 604	Tray lever	253021000100	1
8	960 0140 701	Chuck holder	432021003300	1
9	960 0140 808	Chuck slider	264021000100	1
10	960 0140 905	Center gear	247004029101	1
11	960 0141 001	Pulley gear	247004034101	1
12	960 0141 108	Motor pulley	250000031000	1
13	960 0141 205	CST chuck	401021009600	1
14	960 0141 302	CST stopper	401021008600	1
15	960 0141 409	Deck GND	307021003600	1
16	960 0141 506	Chuck spring	372021000600	1
17	960 0141 603	Lever spring	372021003600	1
18	960 0141 700	Loading belt	249021000500	1
19	960 0141 807	Motor PCB	702002245001	1
20	960 0141 904	Contact wire	L00021104002	1
22	960 0125 108	Deck mecha. (CMAL2Z714X)	815000039001	1
23	960 0125 205	DC motor	G70032200001	1
24	960 0142 000	Micro switch	G22004013001	2
2.4	000 01 12 000	I Miloro Ottikon	0.2200	
S1	960 9008 307	Screw 2.6×8 W		5
S2	960 9008 310			2
S3	960 9008 323	Screw 3×8		4
S4	960 9008 336	Screw 2.6×5		2
54	900 9000 330	301ew 2.0x3		-
DECK ME	CHA. SECT	ION (CMAL2Z714X)		
3	9DF 5138 31	Head plate block	8950007150000	1
4	9DF 5253 27	Main motor block	8950007150010	1
5	9DF 5676 26	Control PCB block	8950007150020	1
6	9DF 5220 52	Clutch ass'y block	8950007150030	1
25	9DF F19H 11	Main belt	8950007150040	1
29	9DF 5220 48	Clutch ass'y block	8950007150050	1
31	9DF 5141 29	Pinch roller block R	8950007150060	1
32	9DF 5141 30	Pinch roller block L	8950007150070	1
42	9DF F18W 12		8950007150080	1
42	301 1 1011 12	1711 Deit	0000007100000	1
				1





SPEAKER

SPEAKER SYSTEM (Option for Asia model)

SPECIFICATIONS

Type:

2-way, 2-speakers,

Frequency range:

45Hz ~ 30kHz

Speakers:

Low-leakage-flux

Sensitivity:

88dB (1m, 1watt)

14cm cone woofer 2.5cm dome tweeter Crossover frequency: 4kHz

Dimensions:

183(W) x 328(H) x 240(D) (mm)

Input impedance:

6 ohms

Weight:

4.3kg

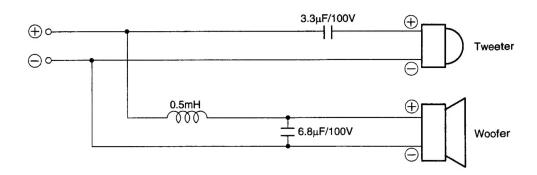
Max. input:

60 watts (EIAJ)

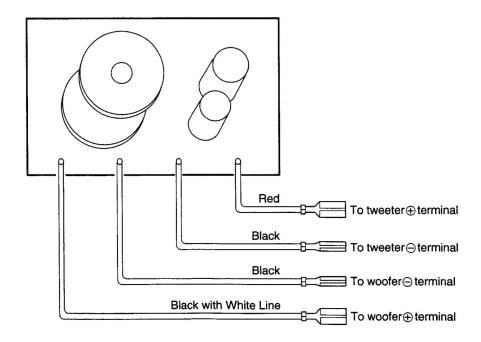
* For improvement purposes, specifications and design are subject to change without notice.

* Low-leakage-flax complies with EIAJ standard.

SCHEMATIC DIAGRAM

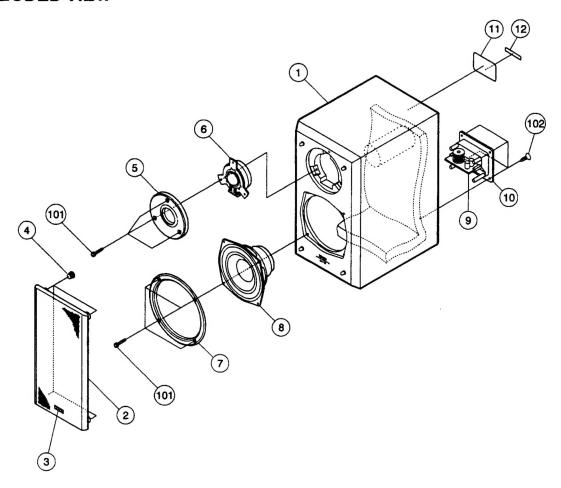


NETWORK ASS'Y



SPEAKER

EXPLODED VIEW



PARTS LIST OF EXPLODED VIEW

PACKING & ACCESSORIES

(Not indicated in the Exploded View)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	SCF 1001 001	Cabinet ass'y		2	201	SCF 1001 013	Connecting cord ass'y		2
2	SCF 1001 002	Grille frame ass'y		2	202	SCF 100E 103	Instruction manual		1
3	SCF 1001 003	DENON badge		2	203	SCF 100E 104	Carton case		1 1
. 4	SCF 1001 004	Catcher		8	204	SCF 1009 005	Cabinet sheet		4
5	SCF 1001 005	Tweeter ring ass'y		2	205	SCF 1009 006	Cushion		2
6	SCF 1001 006	Tweeter		2	209	SCF 1001 012	Serial No. sheet	for carton case	1
7	SCF 1001 007	Woofer ring		2	210	SCF 100E 105	Control label	for carton case	2
8	SCF 1001 008	Woofer		2					
10	SCF 100E 101	2P terminal	include network	2					
			ass'y Ref. No. 9						
11	SCF 100E 111	Rating sheet		2	l .				
12	SCF 1001 012	Serial No. sheet		2					
SCREWS									
101	SCF 1009 001	Screw 4×20 HSHCTS	for speaker	14					
102	SCF 1009 002	Screw 3.5×12 CFTS	for 2P terminal	8					